

1 atgaagtctg gctccggagg agggtccccg acctcgctgt gggggctcggt gtttctctcc
61 gccgcgctct ctctctggcc gacgagtgaa gaaatctgtg ggcccgccat tgacatccgc
121 aacgactatc agcagctgaa gcgcctggaa aactgcacgg tgatcgaggg cttcctccac
181 atcctgctca tctccaaggc cgaggactac cgaagctacc gcttcccaa gctcaccgtc
241 atcaactgagt acttgctgt cttccgagtc gctggctcg agagcctggg agaccttcc
301 cccaaacctca cagtcatccg tggctggaaa ctcttctaca actacgcact ggtcatcttc
361 gagatgacca atctcaaggc tattggcatt tataatctga ggaacattac tcggggggcc
421 atcaggattg agaagaacgc cgacccctgt tacctctcca ccatacgactg gtctctcattc
481 ttggatgcgg tgtccaataa ctacattgtg gggacaaggc ccccgaagga atgtggggac
541 ctgtgtccag ggacattgaa ggagaaggccc atgtgtgaga agaccaccaat caacaatgag
601 tacaactacc gctgtggac cacaatcgc tgccagaaaaa tggccccaag tggccgggg
661 aagcgagccgc acaccggagaa caacgagtgc tgccaccggc agtgcctggg cagctccac
721 acaccggacg acaacacaac ctgcgtggcc tgcaagacact actactacaa aggccgtgt
781 gtgcctgcct gcccgcctgg cacccatcagg ttcgagggtc ggcgtgtgt ggatcgcat
841 ttctgcgcca acatcccaa cgctgagagc agtactcg atggctcgat tatccacgac
901 gatgagtgc tgcaggatg tccctcaggc ttcatccgc acagcacccca gagcatgtac
961 tgtatccct gccaaggccc ctgcctccaa gtctgcggcg atgaagagaa gaaaacgaaa
1021 accatcgatt cggtgacttc tgctcaaattt ctccaaaggat gcaccatcct gaaggcaat
1081 ctgcatttata acatccggag aggcaataac attgcctcg agttggagaa cttcatgggg
1141 ctcatcgagg tggtgaccgg ctacgtgaag atccgcattt ctcatgcctt ggtctccctt
1201 tccttcctga agaacccttcg ttcatacttta ggagaggagc agtggaaagg gaactactcc
1261 ttctatgtcc tagacaacca gaaccttgcag cagctgtggg actggaaacca ccggaaacctg
1321 accgtcaggt cccggaaagat gtactttgtc ttcaatccca agtgcgtgtc ctccgaaatt
1381 taccgcatgg aggaagtgc cggaaaccaag ggacgcccaga gcaaaggggcataaaacacc
1441 aggaacaacg gagagcggagc ttccctgtgaa agtgcatttc tccgtttcac ctccaccacg
1501 acctggaaaga accgaatcat cataacgtgg caccggtaacc ggccgcggc ctaccggat
1561 ctcatcagct tcacagtttta ctacaaggag gcaccatcta aaaaacgttac ggaatatgac
1621 gggcaggatg cctgtggctc caacagctgg aacatggtgg attagacact gcctccgaac
1681 aaggaggggcg agcctggcat ttactgcattt gggctgaagc cctggacccca gtatgcgtc
1741 tatgtcaagg ctgtgaccct caccatggtg gaaaacgacc atatccgtgg ggccaaaagt
1801 gaaatcttgt acattcgcac caatgcttca gtcccttcca ttcccctaga tggctctca
1861 gcatcaaact ctccctctca gctgattgtg aagtggaaatc ctccaactct gccaatgg
1921 aacttgagtt actacattgt gagggtggcag cggcagcccc agatggta cctgttccgg
1981 cacaactact gctccaaaga caaaataccc atcagaagaat acgcgcgtgg taccatcgac
2041 gtggaggagg tgacggaaaaa tcccaagaca gaagtgtgtg gtgggtataa agggccatgc
2101 tgcgcttgc ctaaaaactga agctgagaag caggctgaga aggaggaggc tgagtaccgt
2161 aaagtcttgc agaatttccct tcacaattcc atctttgtc ccaggccccga aaggaggccg
2221 agagacgtca tgcaagtggc caacacgacc atgtccagcc gaagcaggaa caccacggta
2281 gctgacaccc tcaaatatcac agacccggag gagttcgaga cagagtaccc tttctttgag
2341 agcagagtggtt ataacaaggc gaggactgtc atctccaaacc tccggcctt cactctgtac
2401 cgcacatcgata tccacagctg caaccacgag gctgagaagc tggctgcag cgcctccaaac
2461 ttcgtcttgc cgagaaccat gccagcagaa ggagcagatg atatccctgg tccgggtgacc
2521 tgggagccaa gacccggaaaaa ctccatctt ttaaagtggc cagaacccga gaaccccaac
2581 ggattgatcc taatgtatga aattaaatac gggtcgaag tcgaggatca gcgaaatgt
2641 gtgtccagac aggagtacag gaagtacggg gggggccaaac tcaaccgtct aaacccagg
2701 aactatacag cccggattca ggctacctcc ctctctggg atgggtcatg gacagatcct
2761 gtgttcttct atgtccccgc caaaacgcacg tatgagaact tcatgcattct gatcattgct
2821 ctgcgggttgc ccatcctgtc gatcggttgc gggctggta tcatgcgttgc tggcttccat

FIGURE 1A

2881 agaaaagagaa ataacagcag gttgggcaat ggagtgcgt atgcttctgt gaaccccgag
2941 tatttcagcg cagctgatgt gtacgtgcct gatgaatggg aggttagctcg agagaagatc
3001 accatgaacc gggagctcg acaagggtcc ttggatgg tctatgaagg agtggccaag
3061 ggtgtggtca aggatgaacc ccaaaccaga gtggccatca agacggtaaa cgaggctgca
3121 agtatgcgtg aaagaatcga gtttctcaac gaggcctcg tgatgaagga gttcaattgt
3181 caccatgtgg tccgggtgct ggggtgtgta tcccaaggcc agcccacccct ggtcatcatg
3241 gaactaatga cacgcgggtgta tctcaaaagt tatctccggc ctctgaggcc agaagtggag
3301 cagaataatc tagtcctcat tcctccgagc ttaagcaaga tgatccagat ggctggagag
3361 attgcagatg gcatggccta cctcaatgcc aacaagtcg tccacagaga ccttgcgt
3421 aggaactgca tggtagccg aatttcaca gtcaaaaattg gagatttcgg tatgacacga
3481 gacatctacg agacggacta ctaccggaaa ggcgggaagg gtttgcgtcc tgcgtctgg
3541 atgtctcccg agtccctcaa ggatgggtgc ttcaactactc attctgtatgt ctggctcc
3601 ggggtcgtcc tctgggagat cgcacgctg gctgagcagc cttaccagggg ctgtccaa
3661 gagcaagtcc ttcgtttcgatggggtt ggccttcgg acaagccgga caactgcct
3721 gatatgcgtt ttgaacttat ggcgcgtgc tggcagtata acccaagat gccgcctcc
3781 ttctggaga tcatcgccag catcaaggat gagatggagc ccagttcca ggaggtctcc
3841 ttctactaca gcgaggagaa caaggctccc gagccagagg agtggagat ggagctggag
3901 atggagcctg agaacatgca ggggtccca ctggaccctt cggcctcc agcctcc
3961 cctctgcctg aaagacactc aggacacaag gctgagaatg gcccgggccc tggcgtgctc
4021 gttctcccgcc cgagggttgc tgagagacag cttacgc acatgaacgg gggacgcgc
4081 aacgagaggg cttgcctt gccccagttc tgacacgtct gatcctcgga cacaccgaag
4141 cacgcgccaa cagtaacgtg tggcccccac tcgggtggcg ggggggggg gaggggagag
4201 caggttgtaa caatcttacc acaaggctcc tgcgtcc tggatcttca gacctgccc
4261 tgctgcccac gggagacggc ttctctgcag taaacacatt tgggaccttc ctttttcaa
4321 tatgcaagca gcttttatt tccttaccc gaacccttaa ctgacatggg cctctgcaaa
4381 ccttaatgac aacacttaat agcaacagga cactcgagaa ttgagtcct tcgttctctg
4441 ccttttctc tcctctgcct tccctctctg ccctctcccc ttccacttcc acgctctcct

FIGURE 1B

1 mksqsgggsp tslwglvfls aalslwptsg eicgpgidir ndyqqlkrle nctviegflh
61 illiskaedy rsyrfpkltv iteylllfrv agleslgdlf pnltvirgwk lfynyalvif
121 emtnlkdigl ynlrnitrga irieknadlc ylstidwsli ldavsnnnyiv gnkppkecgd
181 lcpgtleekp mcekttinne ynyrcwttnr cqkmcpsvcg kracennec chpeclgsch
241 tpddnttcva crhyyykgvc vpacppgtyr fegwrcvdrd fcanipnaes sdsdgvfihd
301 decmqecpsg firnstqsm y cipcegpcpk vcgdeektk tidsvtsaqm lqgctilkgn
361 llinirrgnn iaselenfmq lievvtgyvk irhshalvsl sflknrlil geeqlegnys
421 fyvldnqn1q qlwdwnhrnl tvrsgkmyfa fnpklcvsei yrmeevtgtk grqskgdint
481 rnngerasca sdvlrftstt twknriiitw hryrppdyrd lisftvyyke apfknvteyd
541 gqdacgsnsw nmvdvdllpn kegepgillh glkpwtqyav yvkavtltmv endhiringaks
601 eilyirtnas vpsipldvls asnsssqliv kwnpptlpng nlsyyivrwq rqpqdgylyr
661 hnycskdkip irkyadgtid veevtenpkt evcggdkgpc cacpkteaek qaekeeaeyr
721 kvfenflhns ifvprperrr rdvmqvant mssrsrnttv adtynitdpe efeteypffe
781 srvdnkertv isnlrpfly ridihscnhe aeklgcsasn fvfartmpae gaddipgpvt
841 weprpensif lkwpepenpn glilmeyiky gsqvedqrec vsrqeyrkq gaklnrlnpg
901 nytariqats lsgngswtdp vffyvpaktt yenfmhliia lpvaillivg glvimlyvfh
961 rkrnnnsrlgn gvlyasvnpe yfsaadvyvp dewevareki tmnrelgqgs fgmvyegvak
1021 gvvkdepeetr vaiktvneaa smreriefln easvmkefnc hhvvrllgvv sqgqptlvim
1081 elmtrgdlks ylrlsrlrpeve qnnlvlipps lskmiqimage iadgmaylna nkfvhrdlaa
1141 rncmvaedft vkigdfgmtr diyetdyrk ggkgl1pvrw mspeslkdgv ftthsdvwsf
1201 gvvleiatal aeqpyqqlsn eqvrlfvmeg glldkpdncp dmlfelmrmc wqynpkmrps
1261 fleiigsikd emepsfqevs fyyseenkpp epeelemel mepenmesvp ldpsassas1
1321 plperhsghk aengpgpgvl vlrASFderq pyahmngra neralplpqs stc

FIGURE 2

1 gctcattcat ttccactccg catttctgcc cctcgccggc ctcgccccgc cccggggactt
61 cggaccagtc tcgccaactg cgtcgccgtc tcccggccgc taggctccgg tggtcgttcc
121 ctccggggat cgggtggcgt ttgtcctcgc ctgcggccat ttgggctttg ctccttcc
181 tgtacagtt tcctccttct tctgcatttc tgcgttgca aatggaggcc gacgacgccc
241 acagcccgcc cccggccgcgc cccggcttccc gactccgccc ccccggtggc cgctgctgcc
301 ggcgctgagg ggcgcggcccg cgcacccctc cttgtccacg cccgcttcccg aggatcgtcg
361 cctgcgcctct tggttttggc cgagagttag gactgagttt gagaactttt ttttctttt
421 ttcttttctt tttttttttt ttttcttattt ttgagaaaag ggaatttcgt cccaaataaa
481 aggaatgaag tctggctccg gaggagggtc cccgacccctcg ctgtgggggc tcgtgtttct
541 ctccggccgc ctctctctt ggcgcacgag tggagaaatc tggggcccg gcattgacat
601 ccgcaacgc tatcagcagc tgaagcgcct ggaaaactgc acggtgatcg agggcttcct
661 ccacatcctg ctcatctcca aggcggagga ctaccgaagc taccgcttcc ccaagctcac
721 cgtcatcact gagtacttgc tgctcttccg agtcgctggc ctcgagagcc tgggagacct
781 ctcccccaac ctcacagtc tccgtggctg gaaactcttc tacaactacg cactggcat
841 cttcgagatg accaatctca aggtattgg gctttataat ctgaggaaca ttactcgggg
901 ggccatcagg attgagaaga acgcgcaccc ctgttaccc tccaccatag actggctct
961 catcttggat gcggtgtcca ataactacat tggggaaac aagccccca aggaatgtgg
1021 ggacctgtgt ccaggagacat tggaggagaa gccccatgtgt gagaagacca ccatcaacaa
1081 tgagtacaac taccgctgt ggaccacaaa tcgctgcacag aaaatgtgcc caagtgtgt
1141 cgggaagcga gcctgcaccc agaacaacga gtgctgcaccc cccggagtgc tgggcagctg
1201 ccacacaccg gacgacaaca caacctgcgt ggcctgcaga cactactact acaaaggcgt
1261 gtgtgtgcct gcctgcccgc ctggcaccta caggttcgag ggctggcgct gtgtggatcg
1321 cgatttctgc gccaacatcc ccaacgcgtc gagcagtgc acggatggct tcgttatcca
1381 cgacgatgag tgcatgcagg agtgccttc aggcttcatc cgcaacagca cccagagcat
1441 gtactgtatc ccctgcgaag gcccctgccc caaagtctgc ggcgtatgaa agaagaaaac
1501 gaaaaccatc gattcggta cttctgctca aatgctccaa ggatgcacca tcctgaaggg
1561 caatctgctt attaacatcc ggagaggcaaa taacattgcc tcggagttgg agaacttcat
1621 ggggctcatac gaggtggta cccggtacgt gaagatccgc cattctcatg ccttggctc
1681 cttgtccttc ctgaagaacc ttgcgtctcat cttaggagag gagcagctgg aaggaaacta
1741 ctccttctat gtcctagaca accagaactt gcagcagctg tggactggaa accaccggaa
1801 cctgaccgtc aggtccggaa agatgtactt tgctttcaat cccaaagctgt gtgtctccga
1861 aatttaccgc atggaggaag tgaccggaaac caagggacgc cagagcaaag gggacataaa
1921 caccaggaac aacggagagc gagttctgt taaaagtgtat gttctccgtt tcacctccac
1981 cacgacccctgg aagaaccggaa tcatacataac gtggcacccgg taccggccgc cggactaccg
2041 ggatctcatc agttcacag ttactacaa ggaggcacca tttaaaaacg ttacggaaata
2101 tgacggccag gatgcctgt gtcacacatc ctggacatcg gtggatgtat acctgcctcc
2161 gaacaaggag ggcgagccgt gcattttact gcatggctg aagccctggc cccagatgc
2221 tgtctatgtc aaggctgtga ccctcaccat ggtggaaaac gaccatatcc gtggggccaa
2281 aagtggaaatc ttgtacattc gcaccaatgc ttcaagtccct tccattcccc tagatgtcct
2341 ctcagcatca aactcttccct ctcagctgtat tggtaagtgg aatccctccaa ctctgccc
2401 tggtaacttg agttactaca ttgtgagggtg gcagcggcag ccccgaggatg gttacctgt
2461 ccggcacaac tactgctcca aagacaaaat acccatcaga aagtacgccc atggtaccat
2521 cgacgtggag gaggtgacgg aaaatccaa gacagaatgt tgggtgggtg ataaaggccc

Figure 3A

2581 atgctgcgct tgccctaaaa ctgaagctga gaagcaggct gagaaggagg aggctgagta
2641 ccgtaaagtc tttgagaatt tccttcacaa ttccatctt gtgcccaggc ccgaaaggag
2701 gcggagagac gtcatgcaag tggccaacac gaccatgtcc agccgaagca ggaacaccac
2761 ggtagctgac acctacaata tcacagaccc ggaggagttc gagacagagt acccttctt
2821 tgagagcaga gtggataaca aggagaggac tgcatactcc aacctccggc cttdactct
2881 gtacccgatc gatatccaca gctgcaacca cgaggctgag aagctgggct gcagcgcctc
2941 caacttcgtc tttgcgagaa ccatgccagc agaaggagca gatgatatcc ctggccgg
3001 gacctgggag ccaagacccg aaaaactccat ctttttaaag tggccagaac ccgagaaccc
3061 caacggattg atcctaataatg atgaaattaa atacgggtcg caagtgcgagg atcagcggg
3121 atgtgtgtcc agacaggagt acaggaagta cggaggggccc aaactcaacc gtctaaaccc
3181 agggaaactat acagccccga ttcaggctac ctccctctt gggaaatgggt catggacaga
3241 tcctgtgttc ttcttatgtcc cgcacaaac gacgtatgag aacttcatgc atctgatcat
3301 tgctctgccc gttgccatcc tgctgatcgt tggggggctg gttatcatgc tgtatgtctt
3361 ccatagaaag agaaataaca gcaggttggg caatggagtg ctgtatgctt ctgtgaaccc
3421 cgagtatttc agcgcagctg atgtgtacgt gcctgtatgaa tgggaggttag ctcgagagaa
3481 gatcaccatg aaccggggagc tcggacaagg gtcctttggg atggtctatg aaggagtgcc
3541 caagggtgtg gtcaaggatg aaccggaaac cagagtggcc atcaagacgg taaacgaggc
3601 tgcaagttatg cgtgaaagaa tcgagtttct caacgaggcc tcgggtatga aggagttcaa
3661 ttgtcaccat gtggcccggt tgctgggtgt ggtatccaa ggccagccca ccctggtcat
3721 catggaaacta atgacacacgcg gtgatctcaa aagttatctc cggctctgaa ggccagaagt
3781 ggagcagaat aatctagtcc tcattctcc gagcttaagc aagatgatcc agatggctgg
3841 agagattgca gatggcatgg cctaccta tgccaaacaag ttctgtccaca gagacccctgc
3901 tgcttaggaac tgcatggtag ccgaagattt cacagtcaaa attggagatt tcggatgac
3961 acgagacatc tacgagacagg actactaccg gaaaggccgg aaggggttgc tgcctgtgc
4021 ctggatgtct cccgagtc tcaaggatgg tgtcttcaact actcattctg atgtctggtc
4081 ctccgggtc gtcctctggg agatcgccac gctggctgag cagccctacc agggcttgc
4141 caacgagcaa gttcttcgtt tcgtcatgga gggtggcctt ctggacaagc cggacaactg
4201 ccctgatatg ctgtttgaac ttatgcgtat gtgctggcag tataacccca agatgcggcc
4261 tccttcctg gagatcatcg gcagcatcaa ggtatgagatg gagccctagct tccaggaggt
4321 tccttcctac tacagcgagg agaacaagcc tcccggccca gaggagctgg agatggagcc
4381 tgagaacatg gagagcgtcc cactggaccc ttccggcctt tcagccctccc tgcctctg
4441 tgaaagacac tcaggacaca aggctgagaa tggccggc cctggcgtgc tcgttctccg
4501 cgcctttt gatgagagac agccttacgc tcacatgaa gggggacgcg ccaacgagag
4561 ggccttgct ctgccccagt cctcgacctg ctgatcctcg gacacaccga agcacgcgc
4621 aacagtaacg tgggtgcgcc cactcggtgg ggggggggc ggggagggga gaggcaggatg
4681 taacaatcta ttccacaagcc tcctgtacct cagtggatct tcagacctgc cattgctg
4741 cacggagac ggcttctctg cagtaaacac atttggacc ttccctttt caatatgca
4801 gcagctttt atttcctta cccgaaccct taactgacat gggctctgc aaaccttaat
4861 gacaacactt aatagcaaca ggacactcga gaattgagtc tcttcgttct ctgcctttt
4921 ctctccctcg ccttcctctc ctgcctctc ccctccact tccacgctct cct

Figure 3B

ID 1: 3727	ct0g ttt gaa ctt atg cgc atg tgc tgg cag tat aac ccc aag atg cgg ccc tcc ttc ctg 3786
ID 3: 4211	ct0g ttt gaa ctt atg cgc atg tgc tgg cag tat aac ccc aag atg cgg ccc tcc ttc ctg 4270
aa : 1243	1 f e l m r m c w q y n p k m r p s f l 1262
ID 1: 3787	gag atc atc ggc agc atc aag gat gag atg gag ccc agc ttc cag gag gtc tcc ttc tac 3846
ID 3: 4271	gag atc atc ggc agc atc aag gat gag atg gag ccc agc ttc cag gag gtc tcc ttc tac 4330
aa : 1263	e i i g s i k d e m e p s f q e v s f y 1282
ID 1: 3847	tac agc gag gag aac aag cct ccc gag cca gag gag ctg gag atg gag ctg gag atg gag 3906
ID 3: 4331	tac agc gag gag aac aag cct ccc gag cca gag gag ctg gag atg gag c--- --- --- 4379
aa : 1283	y s e e n k p p e p e e l e m e l e m e 1302
ID 1: 3907	c t gag aac atg gag agc gtc cca ctg gac cct tcg gcc tcc tca gcc tcc ctg cct ctg 3966
ID 3: 4380	c t gag aac atg gag agc gtc cca ctg gac cct tcg gcc tcc tca gcc tcc ctg cct ctg 4438
aa : 1303	p e n m e s v p l d p s a s s a s 1 p l 1322
ID 1: 3967	cct gaa aga cac tca gga cac aag gct gag aat ggc ccg ggc cct ggc gtg ctc gtt ctc 4026
ID 3: 4399	cct gaa aga cac tca gga cac aag gct gag aat ggc ccg ggc cct ggc gtg ctc gtt ctc 4498
aa : 1323	p e r h s g h k a e n g p g p g v l v 1 1342
ID 1: 4027	cgc gcc agt ttt gat gag aga cag cct tac gct cac atg aac ggg gga cgc gcc aac gag 4086
ID 3: 4499	cgc gcc agt ttt gat gag aga cag cct tac gct cac atg aac ggg gga cgc gcc aac gag 4558
aa : 1343	r a s f d e r q p y a h m n g g r a n e 1362
ID 1: 4087	agg gcc ttg cct ctg ccc cag tcc tcg acc tgc <u>tga</u> 4122
ID 3: 4559	agg gcc ttg cct ctg ccc cag tcc tcg acc tgc <u>tga</u> 4594
aa : 1363	r a l p l p q s s t c * 1373

FIGURE 4

ID 5: 1 agagtggccatcaagacggtaaacgaggctgcaagtatgcgtgaaagaatcgagttctc 60
ID 6: 56632 agagtggccatcaagacggtaaacgaggctgcaagtatgcgtgaaagaatcgagttctc 56573

ID 5: 61 aacgaggcctcggtgatgaaggagttcaattgtcaccatgtg0gtaagaagccaagatgag 120
ID 6: 56572 aacgaggcctcggtgatgaaggagttcaattgtcaccatgtg0gtaagaagccaagatgag 56513

ID 5: 121 acatggacagaaaagtatggacagaaaaggaccaccctgtatgtcctggccagctacggaa 180
ID 6: 56512 acatggacagaaaagtatggacagaaaaggaccaccctgtatgtcctggccagctac-gaa 56454

ID 5: 181 ttgttgcctgcctcttcccagtggttagttcccggttcattttgcaccacaga 240
ID 6: 56453 ttgttgcctgcctcttcccagtggttagttcccggttcattttgcaccacaga 56394

ID 5: 241 cccttgaggtgggagcctcgccctcgccctcccaccagaactctgctcctggctacaggc 300
ID 6: 56393 cccttgaggtgggagcctcgccctcgccctcccaccagaactctgctcctggctacaggc 56334

ID 5: 301 cccagcaccacccagttcgagaggcgtaggtcatcatgtggatgccccccctccccctc 360
ID 6: 56333 cccagcaccacccagttcgagaggcgtaggtcatcatgtggatgccccccctccccctc 56274

ID 5: 361 tgagtctttcttgattcctccag0gtccggtgctgggtgtggtatcccaaggccagcc 420
ID 6: 56273 tgagtctttcttgattcctccag0gtccggtgctgggtgtggtatcccaaggccagcc 56214

ID 5: 421 caccctggtcatcatggaaactaatgacacacgcgggtatctcaaaagtatctccggctct 480
ID 6: 56213 caccctggtcatcatggaaactaatgacacacgcgggtatctcaaaagtatctccggctct 56154

ID 5: 481 gaggcc 486
ID 6: 56153 gaggcc 56148

FIGURE 5

FIGURE 6A

2461 ggaacttcag agaattggc gcacatcacatc cacagtcaag agcagagaga aatgcataca
2521 tatttgctgt cttgtttgt ttctcatgtt cagcttgat ttctccattc ttttatagtt
2581 caggactcaa tgccttaggaa atgacactgc ccatagtgaa ctgggttccc ccacatcaat
2641 taacaagaat tggttaggaa ttgggttgc ttgtggacat ggttttttt tggaggatta
2701 tcttagttaa gctaattgtat ataaggcagaa ccattcccta ggaatgatt ggcctgtggg
2761 catgtcaaca tttccttaga atgtggcct gtgagtatgt ctgtgcccac aagtaagaca
2821 attggctaat tgatatgaga aggcccagcc cactgttaggt ggtaccattc ctttagctgg
2881 agatccttga gctgttaggag agaggagaaa tcaaactgtg cacaaggaa tgagcatgtg
2941 tgcatttc tgcattttga ctgtggatgc tatgtgactg ttgtttgaag tcctgcctca
3001 actttccac agtgtatggc tataacataa ttatatgctg aaatgaattc ctctccctc
3061 taagttgctt tcgttgggtt ttttattaca gcaacagttt aagttagaaca cttatttaaa
3121 acctatggaa ggatataatag atagttaca gcttttaggt tgtagatgt gagaacacta
3181 ctgtaaacag tagttccag ttctgagatc agtggccagg tgatgtatgt ttactcagtc
3241 cacttcagc tctaaaaaaa aaaaaaattt gggctcagcg gtttagagca ctgactgctc
3301 ttccaaaggt cctgagttca aatcccagca accacacggt ggctcacaac caccataac
3361 ataacaaggt ctgtatccct cttctggagc ttctgaagac agtacatgt tactcacata
3421 taataataat aaataaaatct tttttttaaa tctatccca tattgcaaaat tagtgtcttc
3481 cattccatc aatatgttag acccagttt tcattcttc ttttgggtt tgtagatgt
3541 ttttattttt cattgtatgt atatgagttc actgttagttg tacagatgt tgtagatgt
3601 catgtcattt ctggaaat aattcgtac ctccgctggc tccggccccc ctggctccag
3661 cccaaagatt tatttattgt tagacctttt aaatataatca cataatagtc tttataataat
3721 agataagtgc ttctcagta ataaccttta aacagatgtt ttatttttta ttttttaacag
3781 agttttaaa agagccaaaca ttcttaactc tggctgtta ttttgcctt tcttgcctt
3841 aaacaagtc ttgggtgggt gtagtgcaca cctttagtcc cagcagatac tggcagatcc
3901 ctatgaactg gtcgagagag caagttacag aaaagtcaag gttacacaga gaaaccctgc
3961 taactaagggt tgagatctgc tatgtctaga tggcttatct gagctcagtg caaaatggag
4021 gactctatac catctgggt tcccccttctc tgaccttgc tagggactc cctataactct
4081 ctacctggaa aaggtaagt agcctcgaa gaccaacaaa cttcctctt tccgcagaag
4141 aacccaccca acaagtaccc gggattcctg aaatgcctt ccatacaaat gaggaattcc
4201 aagaacttta aactctaacc aatgattttc atttaccctt aaaaactcctt cacactctcc
4261 aaggtcctgg ttaccccaa ataaagtgtt ttcgtacaag cccaccccta gtagaggtat
4321 ggaggtatgc tcacaaacca agatcggcta agagagctgt tttcattgaa gattgttgg
4381 gaaggccttc ttctaaaaga gctgtactc taagatcctt cgggaaggcc ttctccct
4441 tcccccccccc tccccccact agcactact cccagcagga ccctaattcct gtataaccct
4501 ccccccccccc ccattctggc cactgtttca tcctccctt ccagtgtgca gtggcatctg
4561 gataccccc tgactatgtt tcatacagtc aattctgagg aagccccccag attagcaagg
4621 ctgaggttct ctggggccta tagaacttgt tgccaggtga tagaacttgt tactggtag
4681 tggggctgg tttagcaaa cctgggtatc tttggttca ggtttggc cttccggca
4741 gcacctagtg aattccagct gggaaagccgt gaaggtaaat cctggcggtt gccccccccc
4801 ccccccccccc ccgggccaac ctggttcctt ctgtggctt tggaaaccc caatgccaat
4861 gcgccggact cctaagaaac cagagtcacc ttgaaaggaa ggcaagcagt gggccctgg

FIGURE 6B

4921 aagaaaaggct tgtatggc cctggaatgg tgtgacttgc ctggtcaggt acttctctcg
4981 tttgtccagg gacactccta ggtgggacca aggcccatgt aggctctact ctacgtaggg
5041 ctagattctt gccctctttt ccttggatg tggggctctgg gaaaagtcat tttcaccagc
5101 tcttgcctc acctacgcat gcggaaatgtaa taacatggat gtctctggcc tccactgaca
5161 gctcagggtg agggcagcct tgcacact gctctgtgtg agccagcat gggcggtgg
5221 tgagaacctg gccagtgtc gtgactgtcg acagcagct tgcttttgc gacatagcta
5281 accaggagaa gggaaatgtct ctgaccggcc actgtgcata ggaggcgagg actccctggc
5341 ccaccccccac ctcccttagt caactgtctg ccatcagttc tcatgtgggt gtcacttaga
5401 ggctctgcga attgaaatgt gcctgttgc acttggctt caacttcaca ctgatgttgg
5461 accaagccaa atgtggggcc tggagtctat tctcagatgtt tccaggccca gctgagaaac
5521 gcagcaaagc tgctagcgtc atgcactcact gcccacccgtg gactgactt tgggtctga
5581 caacgcagag gcaggcagga gacttggat ctttgagttt gcatgtggc ttttgcctt
5641 ccaatcataa aaaagcccaag agacccttgg actcattgtc aaggcttgcct ctggtacaca
5701 aggttaacaga gaggccagga ccagacttgc atgagctcttgc ggctttctgc aaccgtatt
5761 tgatcagcag gacttcttgc aagtccctcag tagtcccaga ccctttgtt tcttctgca
5821 gccgtaaaca atggaaaaga gccgacttgc ttctggtttgc tgggttgcct ctcagttcc
5881 ccagttgcaa gtatgtggcat tcaaaaacct tgctcgagtt ttgtatgcctc cgtttccaa
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6121 atgagggtca gatcagcaca ggaagtggca gaaggagag ggttacctga ggtgggtgg
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6241 gaccactgga agaaaatgtt gtcttggc cttgggtgtt gtgacttgc tggtcaggt
6301 cgtcttccat gtgtcgatg aagaaaatgt gctaaggagg ctcaaggctc attaagctt
6361 gtgaagccaa ccagacagac acaggactg gggcttgcct gaaggcatat agtcagacat
6421 gcagacagcc aaggatagct ctgaaaatgtt cacacacata cacactcaca tgcactata
6481 acacacacac acatacacta ttccatcaca catataccac aaacactata cacataccac
6541 acacatcacac tcacacacac tatacacaca ccacacacat atactcacat atactata
6601 cacacacaca tgcactacac acacatatac acacacatac actctcaactc aggagctata
6661 ggctgaggaa agcaagcata cactggatg gcaggttaagg aaaaaatctg ttttaaggc
6721 tggaggatgt gcttagttt tagagaactt gttgcatttgc atgtgggtct ggttaacatc
6781 ccagcactac ataaaatcgat gcatgggtt atacctagta cttagggaaat agaggcagta
6841 gaatttggaaat ttcaaggctt tgctctgtact gctgcagact ctcattggagt tttgtgaga
6901 atttaaaattt caaattctgg gtttggcatg gtgaccatg ctttaatcc cagccagcat
6961 tcaggaggtt gaggcaggca gattactgtt gtttaaggc tagctggc ttttgggtt
7021 gttccaagac aggaatatac agagagagac cctgtttcag aacaaacaaa aataaaactc
7081 aaacttctta caaagaaaatg tgaactatca gttccttagcc taagatcacc tgatacaca
7141 gaaaataaaa taccatgtt aaaaaatca gtagatggcc ttttaaaaaa cagaattata
7201 accaggcagt ggtggcacat gccttaata aacccagcac ttgggaggca gaggcaggca
7261 gatttttgc tttgaggccca gcctgggtt caaagtggat tccaggacag ccagggtac
7321 acagagaaac cttgtctcaa aaaatcaaaa aaaaaaaaaa aaaaaaagata gcaatgttgc

FIGURE 6C

7381 aaattagaac tatacgctac taaaaagaca gcttagatct gtggcagtg aaagatactg
7441 ctcacaagag actgtatcac ttgagccac ttgcattaaat gtccctagta agtaaatata
7501 ttgagagagg aagtaggtt aatggatggct aagggtggaa gacacagtaa atgaatgtga
7561 agtttccta aagtacattt atttatttgc gtgaccatgt gtgtgtgtgt ctgtctgtct
7621 gtgcacacca tggcttgccc atgaaggctca aaggacaaca gtaggaaagg agctagaact
7681 ctccttcccc tgtataggac ctagggatgg agctcacccc agacatcgaa ttgggcacatc
7741 aggaacctt accccgagcc tctcacatac ttcttttagga ttcttttaggt tgtaattcaa
7801 aggctctggc accgattgcg gtgatggtt gtgtataac ttcttgcgtt gatgggtata
7861 taactgagca tactgaaaga tggaggtt aatagggtaa gtacgtggaa tggataaaag
7921 ctatctcta ggagatagat gatggaaaga taggatagat agatagatag atagatagat
7981 agatagatag atgtgattag atagatagat agatagatag atagatagat agatagatag
8041 agataggtg tagactttac ccacatgtac acatataatgc ctgttcagaa acagacgaa
8101 agaaattatg aaactagaat atagatatgg agatattattt caaaggacaa taaaagatg
8161 gccaacaacaa catagagggg ataatgtaaa tagtaaaggaa agtttctgtt taaatagaat
8221 tccagaggaa aataacagcg agaatggaa aaaaccatct tcaaataatac agctacaatg
8281 tatgggatgg gaatagggtt ggtcccatag actcctgtt ttgaatgtttt gccccacaag
8341 aagtggcaact gtttaggaggt gtggccttgc tgatgtttt accttgggtt aggaagtata
8401 acactgttagg ggcagacttt gaagtctcct atgctcacgc tatgcccatt gtggcacacg
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8701 ttaaaaaaaaaaa aaagatgttag aactctcagc tccttccttca gtgctatgtc tgcctggatg
8761 ttcgccttgc tcctgtctgc acaataatgg agtaaaacctt taaaattgtt agccagcccc
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8881 aaaccctaac aaaggcacaa tggtaagaa tattccagag ggactggaga gagatggctc
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9001 tggctcacaa acattgttaa tgggatctga tgcctcttc tgggtgttctt aaagactgt
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9121 atccacagag atagaataaa agaaaatcca cacctaaaca tagtagagtt ggagactgca
9181 aaagactgtatgtaaggcttta gagtagccag agaggagatg gcttacttac aaaaatggat
9241 actctaacta gtatgtctagg gctaactttc tcaaaaataag caatacaagc tcaaaagcag
9301 tacagtaata acctacagaa tgccaaaattt gtatgtctgt aacagaaacc gtgttagctag
9361 gagatcattc ctcgagaata aggctggggc tggagagatg gcttgcgtt taggagccct
9421 tagcggttat gctttcttgc aggacctgcg tcaattccca gcccacacgt caggtatgtt
9481 ccaactgcct ttgatcccag ctccaaagtg aacctctaaac ctttgggagc acttgcgtt
9541 acgcaagtga acacataactt ccctatacac atacacataaa taaaataaaa aaataatct
9601 tttttttttt ttttaaagaa taaggcttga gtaaaaacat ttccacaaaa ataaatgtca
9661 ggtttactt cagaaggatg acacaagggg actgtaaaaaa ggacacttgt cagaagagaa
9721 gaaaattatc acaaaaatgg tgccttagtc agggttttat tgctgtgaag agacactgtg

FIGURE 6D

9781 aacacagaat tgggggtggc ttatagttc aggggttcag tccattattt tcatacacaag
9841 aaacatggag gtaggcaggc agacaaagga caggagaagg agctgcgagt tctacatctt
9901 gatccacagg cagccatagg agactatatg ctatactgtc catacctaa gcataagaga
9961 cctcaaagtc actatggggc atgcgttgc catagtact caatttctcc aacaagcca
10021 tacctatcca acaaggccac acctcttaat atagtgcgtc atagtgcgtc tccctatgg
10081 ccaagcattc aaacacagga gtctagatc ttatggggc cattcctatt ccaaccactg
10141 cagatggat agaaatcact gggaaagcctg gcagtgggtc cgcattgcctt taatcccac
10201 acttggggagg cagaggcagg tggatctctg agtttgggc cagcctggc tacagagtga
10261 gttccaggac agccaggcgt atacagagaa accctgtctc aaaaaacaaa aaaacaaaaa
10321 caaaaaaaca aaaaaacaaa caaaaagaaa gggagggagg gatgaaggga gagagagaga
10381 gagagagaga gagagagaga gagagagaga gaaagaaatc actgggaaat ggtgagtcg
10441 aggtagaaa tctgtaccag caccaggcag ttagtggcaca cactttat cccagactc
10501 aagatctggt ggatgtctga gttaaaggcc agccttatgt acagagttag ttccagatca
10561 accaaggcta catagaaaaa ccctgtcttgc aacatcaaaa caataaacaa acataaagtc
10621 catatcagca ttgtttgtaa catgtatag tagtagttcg taattccagg atggaactaa
10681 aattcacaac agtcaaaggc tcgggtgtct tctccctca gtgcccctca ttgtcggtga
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10801 cttcttgctt ttaataggac caaaggatgg tgactagaca caccgtcatc ggcacccgt
10861 aagtgggtt cccgagatgg ctggctatgc ccaggcttt ggtacccctc ttggcccttcc
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11041 aacttagttt atcctgtgtc ctgtctaaaca cctcagtgaa ctctatttt gttcagcat
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11161 gtaggaatgg ttatctaagg gaccatacta ggttaaaggc tgagatactt catatacata
11221 gcataccctg actgctgtaa agatagaaaa acagactgag atgccttaca cagtctgtgt
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11341 gcctggctt gggcatgtgt tccaggact gaatcatttt aggtaggagt gaatactttt
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11461 caagcaatgt ttaattatct gtaaaaaagct ttgtatctga gactgcatttgg attacagatg
11521 gggaaaggaaa aaaaagtgtt tattttccaca gtgtctact tccaaaggatg gggtgagct
11581 ttgacaaaacc atcacacgaa gacattttt tttaaagatt tattttat tttatgtaa
11641 gtacactgtt gttgtcttca gatacaccag aataggccat cagatctcat tacgggtgg
11701 tgtgagccac catgtgggtt ctggatttg aacttcggac ctccggaaaga gcagtcgggt
11761 gctcttaccc actgagccat ctcaccagcc ccgcacattat tttttttttt gcaagccactc
11821 ataaaatggga gaagaatgtt gaaaggaaaa gaaaatgttag gggctggaga gatggctcca
11881 tggtaatacg cactgactgc tcttaccgag gtcctgagtt caattccctc caaccacatg
11941 gtgggttcaca accatctgtt acagatctg atgccttcc ctgggtgttc tgaacacacgc
12001 aagtgtgtgc tcacataaaa taaataaattt taaaataga aaaaagaaaa gaaaatgcag
12061 aaaaataata tgaagtctaa aagttcacag cggaaagggc attttctgca aagttcccaa

FIGURE 6E

12121 gcaagtgact ccatgctgtt tggatcatcg cattgtgagc cctcgtgtt aacattgagc
12181 taccccatac tccacaagcc caacgctcct tcagtgacat atgcagcgc tgcacatca
12241 ttgcccattga tctagattct aagctctagg tgggtgggtt tgaataagga tggctccat
12301 agactcatgc cagggatgg cattaggagc tggccctcg tgggaggaag tatgtcactg
12361 agggtggct aataatatacg aagttatgc caaggactgg ggttttgct gccctaggct
12421 ggaccaagtt tcttgggttga atgtggactt tggatttagga aaatagttga atggttcaag
12481 tagagcatca caggccatc tggtaagacc atggaagatg gtgctgttgg tgacatgaat
12541 tatgggttac acagggttta gaggagaaga attgttaggcc tagattttc aaaccctact
12601 ttaataagg gttcttaaac gctttatcct ctcttctagc ccaccaccca ccagagggag
12661 tggaaaggaa aggttaatag agcaaaaggag ggtgtggatc tggtagaaaa aagttcttgg
12721 gagcaaatcc aatctgttaccaggat cagcagtgaca gttcactcag aacagcagca
12781 gcagctcgat ccacttgcaa acaccattca tgaatcagca atggcaggc aatccagaag
12841 aaacctcgag gctctgccaa gtacaaggaa gcagcagcaaa gaagctgcca gaaagaacac
12901 caccagaagt tctttgtgg catttctgtc tatgaagtca tatcaaata tgaactgaa
12961 agaatggcaa ggcaaggtgc tggtagatg gcttagcagg taagagcact gactgctt
13021 cccaaaggatc tgagttcaaa tcccaagcaac cacatgggtt ctacaaacca tcgtaatgag
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13141 ataaataaaat taaaaaaaaa aagaatggca aaccacca tacagcttca tcagcgaaga
13201 ccagtgtcag caaaacccaa tgataaccag caaatatata tattttccaa aacatcaca
13261 ttcttggttct ctcaagtgtc agcttagca aaacatcaca tgcccttgc ctgactgct
13321 tctagaaaaac caccgtgtat ctgttctcag caaaacatcc tccacatgt ctgcttcagc
13381 aaaaacatcc tctcataaga cagttccag caaaacatca catgacatga ctgcattcc
13441 aaagaagcca gaaatttcca attcaaagag tactgtatg caaccttagag accatttt
13501 tgatattttg acaaagatca tgggtacatt ctgctctgt catgcacaca gacacacaaa
13561 tctgcctgag gttaaataga agagttatga atgaacatct ttagaagatt tggctctaag
13621 agattccaa aaagtttagt attgactttt tggcttgggtt attagtgacc atacttatgc
13681 agatctgtaa cgaagaggac caagctaaac aaggaacata cagaatgtac agtttgagga
13741 gaaaaggagc ccagggaaatgt gtaatggagt caagtccagt gcttgaggag ataaacactga
13801 tggtaatgg aaaggagaag tggtagccctc aagccaggac tccaccttagc taagcttcca
13861 acttctgaga agtaatcaaa gaaaagtttta gaactgggtg tagtgaatt accttgaatg
13921 ttagcagcac tcatgagaca gaggcagcag gcaggtcaact gagttcaagg ccagcttgc
13981 gtacagatgg ggttccagga cagccaaatgt taggcagtgaa agggaaaccac tgaaaacaga
14041 aagctggta agatggattt gaatgaagag gcacattcca ggcccaggc cagcagaact
14101 tggtagctt ggccatattt ctctggctt agatggagg gtacaaaaaaa aagagttatg
14161 gaatctccct ccgtgactaa ggaaagctga tggggccagg tgggtgtcag ggatgttt
14221 gcatggagac ccagagaccc ttgcttaaag ttgtgcaggtaaaaaacctgg attgttgc
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14341 agcgtggcct tggtagagga agtgtgtcact tggggagca ggactttgaa gtcataatgc
14401 ctcaagctct gttcagtgat acatacattc tccttctgat gcctccagat caatatgtaa

FIGURE 6F

14461 aactctcagc tcctccagca caatgtctcc ttggatgctg ccatccttcc cgccatgatg
14521 ataatggagt gaacctctga aactgtaagt cagcccaat taaatgttat gagttccat
14581 ggtcatggtg tctattcaca gtgatggaaa acctaactca gacgattgcc ccagaaagcc
14641 cccaagatgt tggatatgcc agagtcattt gatttgcgaa gagggatgct gttaacaggg
14701 agtggaaactg gcccagaga aataactgtt ttgcgttcaa caaagttgaa aagagttgga
14761 gatctgaaga ctgccttgac atcaggcactg gagatgcaga gtttggagtt tacacagctg
14821 tttttggc ttgcctttgt ccagatttc cccttcctc cctttgggaa tggatgataga
14881 tattcctgtat atgttggaaat tatgtatct tgatttgtat tttattccag atcatatgtta
14941 agagcttgcataaataatgttga aacacactt ttgcattttaa acgagggtta agactgatag
15001 actatggaga cttttgaggt aggattgagt gcatttcgtt attatgataa agctacaagt
15061 ctgtggggac tggatgttag aatgtggtgg cttgaaaaaag aatggccccc acagacacat
15121 acttgaatgt ttaaggggta tcattagaag gtgtggcctt gttggagtag gtgtggctt
15181 attagaggaa gtatattttt ggggttgggg ggtggtgagc tttgggtttt gtctttgtgt
15241 atgcctgtat gaggaggtca gatctttga gactggagtt acaggcaatt gtaagctgcc
15301 atatgggtac tgggaattta acccaggctt cttggaaaaag cagccagttc tcttaaccac
15361 tgagccatct cttcagttcc gttccaatgtt aatttttggaa agcttttcta gaagtgcctg
15421 aacccagaga gacaataaaa acagttgttc tcaacctgtt agttgagaca cctttgggg
15481 ttgcataatca gatattttt tacattgatt cacaacaatt gtaaaacttt cagttttgaa
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15601 gggtcacagc attaggcagg ttgagaatca ctgcaacaaa agaagaattt tgccttgcagg
15661 ggttagtgccttgcattttt atcccagcac tcaggagca gaggcaggca gatctctgag
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15781 cttgtctcaa aaacaaaaca aaacaaaacaa acaaaaataa ggtattttgtt aaacatacc
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15901 ggttagagct cttatcagct ttgtatgagct tgatataagg ggaatttccc tttatcccc
15961 aagatgaagt ggtcttaacc ttcttgcatg ctgtttgtt gttagttat aggtttattt
16021 ttatattat tatgtgtgtt tttgccttga atatatgtt tgcatttctt gttacttag
16081 tacatgagga gtccagaaga gggcgccaca tcccacagaa ctggagttac agatggttgt
16141 gagctgtgtt gttgggtgcata ggaatcaaaac ctgggtcctt cagtgctttt aactgtatgag
16201 ccatctctcc agcccccttcc atgattctt aaaaagcagt catagtgaag agagtacaag
16261 gttgtgcattt aggacagttaa cacccttcaat ccatttctt aacaagtcag agtaagatga
16321 cagatcttc aaagggacac cagcaactgt ctggccctt cctgttaggtc cccctaaact
16381 tcactttatgtt ctggagaaat tccagggttc tcagattact ccagagagct agaaagagaa
16441 gctttcttgcatttttgcattttt cgtttgtt tataacataa acttttattt atttatttt
16501 ttatattat atttattat tatgtttagt tacactgtt ctgtcttgcattt acactccaga
16561 agagggagtc agatctcgat acggatgtt gggagccacc atgtgggtgc tggatttga
16621 actcgggacc tttggaaagag cagtcaggtt ctcttacca ctgagccatc tcaccagccc
16681 tataacataa acttttattt tcactggaa gacattcaag cagaggtccc aagttctatc
16741 actcagaaca catatacaga tctggacata ttgacatgtt catggaaatgc aatggagata
16801 gagagacaga aggtccctt gttactgtt gttttttttt gttttttttt gttttttttt

FIGURE 6G

16861 caggttagctt cccaaaccatt tctccatctt tgggtccatt gttgcctgtc tgaatatctt
16921 tgcagatagt ttttagaggg gaaatacagc aagtaagcag aatgggtcag ggttagagcct
16981 gcacctggaa agtggagaaa catcctagag agacacagcc ttgcaaggct ggtccagggt
17041 gttggcagtg tacagctgtg actgcagatg tcagcacaga tgctgggtac ctgattcatg
17101 gcaaccacag gttgggaggg cccctacaga tgggtggagcc ccaggctctga caatcccagt
17161 ggggtgattt gtgacgtttg taataagatc agatgtgagg gttagaggtga gagagaggc
17221 ccaggttagcc ttctagacat gtcttggaa tctgagttca gactggacat tttggggct
17281 catttcaga gtcactctcc tgcactctgc tcccatattc atgagaagag cactccatg
17341 ctggcagaac atgaggccca ggaagaagac atggggctct ccataactca acccccagaga
17401 cctagtgcca agcaattatt gctcatagca gccaaaaaca tgtaagaaac tgccccattc
17461 tggcgaaga gtaagatgca tttgactgtg actgtcaccc attgtcagga ggccaaagca
17521 tttcttagc agctcctcga gtcaatgaaa tactgagtgt actgaggacg agggcagctg
17581 atgtccttc tcatctgtgg tctcagtgaa cagaggtcaa ccaggatcca aaaagcagta
17641 ttatgtggaa actcccagaa agaaaccaga aaggagttt atggtcacga gactggacac
17701 actgccagag tcgcgtggct agcgtcagca aaagtttca atgtacttcc acggaagcat
17761 atttacgacg acgtacagaa gaagggcagc tacttaacag atgcccacct acctttaga
17821 acagctaata agtcacagat gcctgcggta ctcccagaac agaggggcct tagtagtcag
17881 gcctcacaca ggagggcagga agaaaaagcat gcaggaatca aaccatagcc taaagtataa
17941 gatgaacatc caggagccta aaccactcta aagaaaatta catagatcct ctatgtaaat
18001 taaggagcag gagagtgagc tttaagttgt ttctgcaggt gcataaatta tgcaggcact
18061 tcaggcccta tggagaacct aaccctcctc ctcagatgt ggctgcacgc ggacttcctg
18121 ccacaggacc cctgctatga agttagtgca ggaaagaacg ttttatagtg aagatgcctg
18181 agagacttcc aggccaggtg atccaaagtca acacctacag tgacaagtct tttgtatgg
18241 ttgtaccctt gaaatattat catgagaagg gcaactctatg cctcttagagt cttctgcccc
18301 caaccctaaa gcccagtctg atctgagacg agaaggagac agattccagg gaaggcacac
18361 gctctacagt gtctggccag tggatccatag aaccggccaa gtcattaaac acaagaaaga
18421 actgttaggat atgaaacaat gtgttgtat gacctagatg gaccttaaag gactgctctg
18481 tggatgtgtg taactaagga acctgggtaa acgtgcggt ctttaccact cttctatcca
18541 ttaaaatgtt tatcatgtct ctgcgtggg gtgcacgc tttatccca gcactcagga
18601 agcagagaca agaggatctc tgaggatgg gccagcctgg tctcttagagt tcaggcctac
18661 acagaagac cctgccttga aaccaccaa ccaaccaacc aaccaatgaa ccaccataaa
18721 cccacagatt ttgttgggt gtgccttgtt tggAACCTCC ctctctttc tcagttttaa
18781 gactccagaa ccgaagttag aacagctggg catgttactg tggatgtggg atcccagcaa
18841 tggggaaagag gagacaagac ttccctggca ctattgttta agcttagccta acttacccta
18901 ggtgagctcc gggccagtga gagactctgt attaaaaaaa aaaaaagtgg atgttaaaag
18961 acacctaagg ttgtcctctg gcctccacat gcatgtacag acatatgcac acatgtgt
19021 gcacacatga ctgtttcctc ttgtttatca cctgtcctta tgatgttggaa gaactgt
19081 aggcttcag atacagaagt ggattggctt ggttaaaaat cttagttcca ctactggcct
19141 gtgtaaaaga tggggaaatct ctgctgagct aagccatgca ctatgagaac agtctctc
19201 caggccagac ctctacaaaaaaa caacaacaa aacaacacca ccaccaacaa

FIGURE 6H

19261 cacctttgca ggaagggtgtt ggttaaaggcc ctagtttaaa aatgggttta catatacaca
19321 ccatgaagtt cagagagttcc attcgcaca ttatggacc tttagcacga tttgttctg
19381 gaactttccc acccccattct tgcctcggtt ccccaagggtcc tgggtactgt tattattttg
19441 tatccatact gttgcacagc aagtgtctag aacttttgc atctgcagaa cagactcgct
19501 actgatttaa ccatggccctc ccctccccc cccttccctt ccccttggct tctgctgacc
19561 accactctac ttccccatctc tccctcggtt gctgttagct acttagtggaa agtggaaacca
19621 tattgacttt tggactggc ttacttggct tagtataatg ttttcaagggt tcaaccatgt
19681 cattgagtgc accagactat tcctaaaacc ctggcactca ggaggcttaag gtagggaaac
19741 ccagaccaat ggttttcaac cttcctcggtt tgccgggtac ccccacaaacc atatttctgt
19801 tcttacttca tagcagtaat tttgctaattt ctagggatca tagtacaaat attttggag
19861 atagagggtt gccaaagggg gtctcaatcc acagggttaag aacttctgtat ttagactttt
19921 agttcaggcc aaattacaca gtgagagcct atcttcttca tttcttaattt tgaaagaaag
19981 aaagaggggag ggagggaggg agggaggggg ggggaaggga gggagggaaag ggagggaggg
20041 aaggggagggag gggaaaggggag ggagggaaagg gagagagaga gagagaaaaga gagagagaga
20101 gaaagaaaaga gagaagaaa gggagaaaaga gagaaaaggc taggcgtgtat gcagctcact
20161 gcagctctgt gagacgcagg caggccatg gtctccac tttagccgccc tagtgaattt
20221 gaggccagcc tgagagataa gagaccctgc ctttaaaaaaaa caaaatagac aatcagctt
20281 gtgggtaaaaa gtgtttgtga ccaaagctgc caacctgtgc tggatcccca gaaccacat
20341 ggtggaaagga gaaaaccagt tcctgcaagc cctccacgtt gtgagccatg gcatgcaggc
20401 atcctcagac agacagacag acagacaaaaa tgaataagta cattaacatg tttaaattaa
20461 aaaatggaag gggcagaaag gggaaaggaaag cagatgggggt cttttgtttc tttgtttgt
20521 gtgtgtgtat ttatgtat atgtgtgtat atgtatgtat gtatgcattt atatatgtat
20581 gtatttagaga caaggtttct ctgtgttagct ctgactgtcc tgaaacttgc tctaggatg
20641 aaatgcatgc acccccctcc cccagctgaa actgacagtc tgattcccta ttgtgtttgt
20701 gtttcttacc agttcatctt ctgctggaca ctggatggc atcttctatg ccactgtgaa
20761 cagagctgca agcttcatt ttgggggtat atactcagaa gtgggggtac tgggtcatat
20821 gaccagtcag agattgtta gtaactacca agttctctac atatttagaa atactatttc
20881 ttcttcttcc ttctttcttc ttcttctt cttcttctt cttcttcttc ctcctcctcc
20941 tcctccttcc tccttcttc ttcttctt cttcttctt cttcttctt cttcttctt
21001 tctttcttcc tccttcttc ttcttctt cttcttctt ttcttcttcc tttctccctt
21061 ctctcttcc tccttcttc ttcttcttcc ttcttctt cttcttcttcc cttcttctt
21121 ctcctcctt cttcttctt cttcttctt cttcttctt cttcttcttcc ttcttctt
21181 tcttcttcc tccttcttc ttcttctt cttcttctt cttcttcttcc ttcttctt
21241 ttctcctcctt ctcctccttc ttcttcttcc ttcttcttcc tttaagcttt atgtgtacag
21301 gtgtttgtc tacatgtata ttgtgcacac cagaaaaagg cactggattc catggacta
21361 cagttacaga ttggggagggc atgggggtgc tggtcttga actcagggtcc tctggaagaa
21421 cagtgcctt aaccactgag ttaactctt ctgccttcc ttcatcttcc ttctcttcc
21481 ctctcttcc tccttcttc ttcttcttcc ttcttcttcc ttctcttcc
21541 ttcttcttcc ttcttcttcc ttcttcttcc ttcttcttcc ttctcttcc

FIGURE 6I

21601 acagatacaa agttctctga ataggccata aaaatctgag cttaactcttg agtaatatgt
21661 ggtgaatgga cggcagagca tggccttcg tcttgcttgg tcctcacaca ggacacaggt
21721 cctcagacag gcccaggacc cttagagctcc tttggggag gggacacagt ggtgctatga
21781 aagcctgtct tcttctactt actctcagtt cattataaag catttcaacc tgttaatggg
21841 ttccagggtc atactattt gccttaatta aactaattccc cacattatga tcaagaaaatc
21901 ccataaaaaat gatctgtaac aacatcacac ataggagata aaatgaattt atgtgaatca
21961 cacggaaaatg aggaatgaca attcctgtga ccctcccaga ggccttatac aaccatagga
22021 aaaaaaaaaaag agctgacatg ttgatccaaa tagagggaaag aatttagggaa agcagttaaag
22081 gaaagaaaaga ggccttaca gattacate tgcccgtata agccactcc aaagcaggag
22141 tcttgcatga gtgcctatgtcc ccctaactac agagcagcag gggagagatg ctgaagtgtg
22201 cactgtgccc tggcatcc agtcagtggt caggcatgcc acgtcaaca tttttattaa
22261 cggggcacat gatcagaat atttggagac agtgaacttga tagaggtcc ctgtcattca
22321 tcctggatct tccaggcaag actgacacat cagtttggaa gaatcacata acagatactg
22381 gaagaggcg ctggcaagca gcctatgtgg aggatagaac ttgacagcac tcaggcagag
22441 tcacctttaa ccaacacccaggatttctt cccaagctcc cctctgtatc tcttttgacg
22501 ctgcttcctg aaatgtctt cctctaattt gttccctgtg gactttggct gtccctgtg
22561 taggatgggt ttggtatcga ctgttctcga ggctgcgggg aggagatact tagcagagtg
22621 ccaagagtcc tccaggggca gcctcggatg atgaccggac tattcattaa ctcagaaaaaa
22681 aatggtgccct ggaagcatct taccaaagtgt agttgttctg cgctcagggt atgctcgggg
22741 tatgttagtt ttctgcttgt atgcttccct tctcagagga gttcagttct catggcttt
22801 gtaacgttag tgttacattt ttttaatggc tacatcattt ccaccaatgg ctgcctctc
22861 ctctgtctac cagcccttcc ctttctcttc ttcaagtgtg ggcttggaaacc caagactttg
22921 ctcatgtctag actaggcaag ctactcagcc ccagccttgt tcatggcact gagtgttcc
22981 atatgcccgg tgagctctcc caggcttggc tttcatttgt ctcttcacaa gcctggatgg
23041 tggatggatac ctgtatggccc ccgggtctct tctctccctt cagggcaagg ggaacatgtg
23101 atctctctct ctctctctct ctctctctct ctctctctct ctctccctct ccctctccct
23161 ctccctctcc ctctccctct ccctctctca ttgttactcc tgcttgtgga gccaagcaaa
23221 gaaaatgacc actgaacagt gaccacgtga caagttgggg aaagataagt agaaaagggg
23281 gcgagaagag gggaaaggaa ggagaggtaa gaactatgca aaaaaaggaa gaaaaggaaag
23341 agaaaaggaa gggggagaga aaggaagcag ggaggaggac ctctgtacac ctccaaacta
23401 acccttcaag atccaaagag catcttcttc cctgtggccc tccagcggcc cggccttgct
23461 caactctcac agcaaccctg agcggagtgc ttgggtctgc attgcaccgg tggggaaagcc
23521 gaggcctggg aggttccaaac ctttgtctag aagcacctca tcctccgaga agatcagcac
23581 tgacagagag gtcaccacc tgcctctgag ggccacccctcc ccagagccca gagaaggatc
23641 ttacctggga tctgtggcg gccatctaac ccagaaggca tgggggtgccc tggaaatgcc
23701 aggaaaggaa gtcaggaaca gtcaggcag aaatgaaggc aaaaaatggg ccccacattc
23761 ctggctgaac tgggatcaag agtgagcaca agtcttaag attcaggct ttcttccttc
23821 caacctatct gctacttggc ctggaaaggag gatgcccaca gccttccttgc cctcacctag
23881 ccttccatca ctccttgccc cctcttcctt ctcccttcc ttctgtttt ccttccctt
23941 cacccttcc ttttctttt catttcctccc ttctttcatt ttcttcattt cttccttcc

FIGURE 6J

24001 cctttcttgc cccccctccc aacaacaaca acaaatccat ggctttgtt tctaaaatta
24061 tatccgcaca ataacctctc tgccaaattcc aggcacacag agccaatggc ccagctccct
24121 ttggataatt caaattgacc ccaagatagc cctacccac ttgtacctcc tccctttgtt
24181 taagagggtt ctctaagctc tttgttcc gaccgaaatc cttccatggc ttccttattat
24241 cccagagaag tccacacctg actaagcatt ccacccagcg tctgcagcct tctcaagttt
24301 caatccccat cttcctggg gtggagtgc cctgttgac ctttggtaga gatgactagg
24361 gactcatcg attacaccag gacagttgtat gtttggatta gcagcagggg tggaggctt
24421 gatgcttatt tgcctgtgg catgcaggac acctgtcagc tgcggagaac ggctcgccat
24481 accaatttcc cgaagggcct cgggtcttg tgcttccttc tgctatgtat ctgcctcgg
24541 ctgctgccac gtgtgttccc agcctcctgc tctggccat cttcatctgt ccacagacct
24601 cagtgttgca aacatggctt cttcagatatt gtctccctag ggtgcccccg cttcaggaag
24661 tacggcttag agagccatgg ctcttgggtt cctggtaact ttgagttcct ccataccagg
24721 agggatgggt tggagcttag agaagacccct gggcatacag tcttgggtgc ctttgggtcc
24781 aggcaactaa ggcacctcac ccgcataattt tgccaggaac tttctaaagct gggcttaggg
24841 gtggacactg acatagaact tcgaactctg cagctgcctg tggattacag ggaggtaaaa
24901 cggaggctta ccacaatctg ggaagatttt caaccacaag taagtatac ctggagaggc
24961 tggggcttg ggaacctgat gatggggcca gggcctagga acttctggc ctttgcata
25021 gatttgaagg ctggagtaca cctgaattaa agcttctgtc gtgagattct gggctgtgt
25081 ataagtttat gctgaaacac gaggttagata gtaaaagatg actgggggca agtggggccgg
25141 aaaaaatggg aatctgttat taaagccagg aggactctag gatagtcac acctatccca
25201 aaaaaagaga ggccctggat taagccctgt gtatggctaa ttctggctgt tctgaggaat
25261 ttaaggtaaa ggcctttggg ccttaggaagg tctgtatgtt attcaccagg ggttggtcca
25321 cttcaaaac atccgtccag gggcctgggt tgatggctca cacttttaat cctggcacct
25381 gtgagttaa ggccagcctg gtctagttt tgagttcaca gcccattcc aaactaacaa
25441 aagtaactac atagtaactg aataataagca ctgtgtaaac aggggcacaa tgccaggtgt
25501 ggtagctcac gccttaatc ccagcacttg ggaggcagag gcaggtggat ttctgagttc
25561 aaggccagcc tggctcacag agttagttcc agatagccca ggactacaca gagaaaccct
25621 gtcttaaaaa acaaaaaacca aaaaaacccaa aaaaacaaaa caaaacaaaa aaaggacact
25681 gaccaaacac tgccggccaaa tcctctgca ctgtttcaa aagaggacaa ataaagtcta
25741 ataagattcg attagactgt tgctagctc ctttatgaaa gttcattaa atacaggatc
25801 ctgttaaaag ccagcatctc ccagggtcat cttggataact tgctttcccc caactcctgg
25861 ggggaaagag agcacacaac ctccggatgag ccatttggaa tacaaaagtc cttttaatc
25921 cagaaaaat ggggaaaagt ctttaatgc agatgttagca tgcttaattc aacccaaaga
25981 tgggtttccct ttgttatcagc accattactt aggggcctaa gcagggctcc tggaggactt
26041 ggagctagat ctgttttagcg gggctctgtc atcaactgac ctctcttcac atcttagtcat
26101 ctgggtctg tcctggatt tctgatatgt atgtccctac agcttggatgt gcatgtggc
26161 atggactctt ctgccaaggc catcttctg gaacagtgtg gtaagaaccg aggctatcgg
26221 gattcagatg taagaggctt ccagccggag gatggagtgt gcctccccgg tggcccccggaa
26281 gtgaggctgt ctgttgcaatc catgaaggag gtctggccgc gtgtggctgt tgagaatgtc
26341 gaagtggcct ttcccgaga tgcgggcagg tacttcagga ctccgtgtc caagtgcacaa

FIGURE 6K

26401 acagatggga gagagggatt atccttcaga gtcgccttc tctcctcaag aggctatcct
26461 atgttgtcca tggcgtgtt ttggtcacag gcatcctatt tgcacaggc actgcagatt
26521 aatttaaccc tttctccaaa cgctgacagc ccctccccct aagcacctt cctctttct
26581 agggataaaag aaataacccga ggggagttgg cagtaaggga gtcattgtgg tgaagggtgc
26641 ttaccactag ttgtttgaaa ggccggctca attctgtcat gaccgcttgc tggtcattag
26701 actctgagcc caagaaccaa tgtctgtctg gagtgttctt aggccatgtc ctttctctat
26761 cagaagagcc aaactcaagt ggtacttaggc atgtgggcat ccataaactc atgcttcatg
26821 aaacctgtac ttactgtgtc tggcatcgac aagatctggg agtaatgggg agtttcatgt
26881 ggttgcaggt acatctgcga ttacacctac tacctgtctc tgacacccgttgg gactgggcat
26941 gcggctctca tccatgtccc tcctctgtcg cactggctct cggccagcct tctgggcaaa
27001 gccttgcgag tcatcatcca agaaatgtg gaagaaatcg gaaaagtcca gactcaaagt
27061 acagcagctt aagggaaagca gcaggggat gccttcctta gatgaaatgg agtgtttcag
27121 gcttggacgg agaagccagc tgtgttatga gaggctctaa aaaaggggaaa cagttacaag
27181 gctgggggtg ggggtggggg tgggggtgtg gactcacaga atcacaatct tacttttagtg
27241 tctaaagcaa gaagaaaatc cccaaaggcg gatgcttcat aaaggattaa cttagggaaag
27301 ttatgacctt tgtaactcca aagagccacc aaaacctagt gtcagagacca aatgaactga
27361 ataactctca agtgttctt gaaaaagatt ttatattttt gttgtttgt ttgtttgtt
27421 atttattata caatgttctc cctgcatgtc tgccctgcattt ccagcccagg gcaccagatc
27481 tgattataaa tggttatgaa ccaccatgtg gttgctggga atcgaactca ggacctctta
27541 agctctcagt catcttcctt gctttgtttt gttttatattt gagacagggt ttctctgtgt
27601 agccccgcct ggctgtcctg gaactcacag aaatctggc gattctgcaaa gaaaatgact
27661 ttacaagatt tcctttgcaa ataaaccaag gacattttac atatgacaga gccaagccac
27721 actaaggcag atcaaagccc aagggtggaa ccgggcgtgg tggcacacac cttaatccc
27781 agcactcagg aggccagaggc aggccagattt ctgagttcca ggacagccctg gtctacaaag
27841 tgagtgccag gacagccagg gctacacaga gaaaccctgt ctggaaaaaaa acaaaaaaaac
27901 aaacaaaaaa agcccaagggt ggactggat ggcacagcc accagcacag aacctagctg
27961 cttggctggcgtt gccttggctg gagaccctc tctgtgagca aagagctcct gctccaaacc
28021 ttaggtccct ttgttccagg agtgggctct agtgacactt cagtcactt ggcacccgtt
28081 cagacacatt aaaagaaaac gcccggcata cgcctttaaa cccagcaactt gggaggcaga
28141 ggcaggtgga tttctgagct caaggccagg gctacacaga gaaactctgt ttcaaaaaaaac
28201 agaggcccag accccaaccc ccatgagcag ctcttccacc ccctctgcgc ctctccagtt
28261 tctcaagacc ctaagcgccc atttgcattt tattttttgt aaatagctt gcatcccccg
28321 acaatacaca ctgcatttcctt ttcatgtcaca gctgatagtt ggtggtttgt atgcttcgca
28381 gccagtgttag aacactgttt ttttgcgtgtt catttaatgg ttgggaggc tgaagcatgg
28441 ctctgtgttc atctataaaac ccgactaata aaaagtctt gttctgacta cccagagaat
28501 gtgtcaccaa caacacacca gccaaaaaaa gaaaagaaaaaaa aaaagaaaaaa ggtgttagtat
28561 gggccctcag cttgtggctt gaatatctt ttttgcgtgtt cttttttttt ttgggggggg
28621 ggtgaggtgg gtggcagca gtatattatg aatctagcta gtaagcaggt gttttttttt
28681 acgaataata attaatttc agaacgctcg taataggtga cttagctggc caggggtggc

FIGURE 6L

28741 acatgccttt aatgacaaaag ctccgttagga aggccaggtagg ctctctaagc tcttaggacag
28801 cctggctcac agagcaagg ccaggtcagc cagggtctaca cagagaaacg atatttcaga
28861 aagattaaaa aaaaaaaagtg tctcagactc caaggagagc acctaactta aaaaaaaaaaa
28921 gacttaattt tatgtgtatt agtgtaaagg tatctcaccc ttagatctgg atcccttgg
28981 actggagttt caattgttaag ctgcattgtt ggtgctggg attgaaccct ggtctttgg
29041 gagagcacac gtgctcttaa cctctgagca atctctcgat tcctaatagt cttttaaagg
29101 tcttagtaccc ggctggagag atggctcagt gatttaagag tgccgactgc tcttccgaag
29161 atcccgagtt caccgagttc aaatcccagc agccacatgg tggctcacaa ccatccgtaa
29221 gaaatctgat gcccctttt ggggtgtcct aagacagcta cagtgtactt acatataata
29281 aataaaatctt aaaaaaaaaaa aaaaaaaaaaa agtctagttc cttcatttcctt aaaagcagct
29341 ggctccggcc aggcagggtt ttggtaaact ggaggcatag taccaatcca ggatagcaca
29401 gaaataagac cttcagcgtc atctagtgaa gctccctggg catctggtaa aaaaaacccc
29461 cggggcagga cgagatttggga aggtgtgctc ttccaaacgac ctttgacta taaatccaaa
29521 tacccattgg gttaggctac tgggaggctc actgggtctt gagttgcctc tgatttgctt
29581 ctgccaccta tgtctcatcg atcagttttt caccgggtgt cctgattttgc tcaactgagtt
29641 cccccattctt cagtgttcag tgaggcggct acctactctc ccaggagtct agaatgtatg
29701 gcttgggtga ttttccaacc caaaccattc atcaccttcc catggcaaag atggagagcc
29761 agcatctcag agttacatgtt gggcaaccta acgactcagc accttgcagc caggaacacgc
29821 ccgattttcc ttgggttctt ctccagcacc ctcaggcacc ccaactgtga agcactacca
29881 aggacaggaa aatgcacgca gcacgcagg ttctggcaac cccgccccac ccccagactc
29941 acacatacca aagccaccct ggccctttgtt caacccaagg tccagggggcc aagcctgtga
30001 agcagccctg agacttgc ttcattgcctc ctgattttcc tctagctgag taagtgaggg
30061 gaaagttagt tcttcaaaactt caacagcaat ttgcatttgg agaaacccgg ctgtcagttc
30121 tcgtgttag cattcccgag tgacacacac acacacacac acacacacac acacacacac
30181 acacacacac acacgaggct cagttcccg gctgtcagtt ctgtgtcgtga gcattcctga
30241 gtgacacaca cacacacaca cacacacaca cacgaggctt agttcccgaa ggaagtgggg
30301 gatggttcca gagtgaaagg gaaaccaact gggagacaaa ggtgcataca gaattcttt
30361 atttaactt atccatgtgg tacttaact actagaaaaa agcagagtaa tagactcaag
30421 tggccttagc tttagccatt caaaatagac aaagtttctt ttttcataat gtaaagaatc
30481 ccgagtagatgt cgcaactaaca ggaataaaattt cttacaacag aatatacaaa aacattgaat
30541 ttttttcat ctactgatt tctttatataaaacagag gttttttttt ttttaggaata
30601 atttatacac agaaaggat tttatgttaac aaattggca tattattatc ttttttagac
30661 ttttttttc ttttttaag aaaaaattt acaagaaaaac tcagaaaatgc attattggcg
30721 atgtgtccgc tccatcgagc ctttgactt ttgtttgtt tttttaatc ccagaggttag
30781 atgaactctg gcaaaaactct tacttcaacc tcactggcat aggaaggcaga caggggttgt
30841 caccaggcag gcacctactc cacctgtaca tttgtctgca cactgccccaa cacccacaaag
30901 aaactgaaag accaaaccaa acccacaat gttcccgaa cctttttccct gcagtgttag
30961 aaagttccat gtgtttccaa caacggatc ttgtggaaacc agagagacat ggcacacataat
31021 gcacggggag ccaaaggaca tggatcttaa tttgaaaaaa gggggcgagg ggacacacat

FIGURE 6M

31081 tgtggttttt gttaccagg ttctgtat tagaaaacaa tggaccttcg gcgttcgcca
31141 ttagatacag gtaggcacag cattcgtag gatctgaggc acatgtgcc acgggctgca
31201 catcagagtc atgtgatcac tgtgaagcca ttccagtgct ctgaaaccct cccatctcca
31261 tagtgttgca gagctaggac cagccatacc agccagatgt caccatggag tgccatctct
31321 ttgctgggtg gccacacact gctatttcca tggccagcag ttctttccat ctgtttggc
31381 tgctacactc cacagggAAC agtgagtccc agataatcc tttccccagc aaagggttcc
31441 aagatcaaga tactgaagaa tacagaagta ctttttaaac cactggcatt cctttgttt
31501 ttttttattttt tttatctgtt ttatTTTT ttgttttatttattttat ttatTTTTT
31561 acaaactaga gcagaaaagca tttggggaaag agggtaacc acaattggtc ctggggagaa
31621 tttctttta attaattttt ttaagttttt attttttattt tttggcatat tgtaaagcta
31681 gctagtaaac aagtgtcaaa aaagaaaaaaag gaaacaaaga gggggaaaaaa agaccacaaa
31741 cacatatttt tgcacacaca gagagaaaaaa aaaagtgtt ttaaattttt ttcggcaatt
31801 ataaaactaca aacattttat aaaattttc tatgttctta caaaaatgca atgaaacatt
31861 gaatttagttc ttgttaacca gagcttcgtc aacgactacc cgtaatctac tggacttaga
31921 agccctattt aaggataat ggttattttt aagaatgtt tactggaaag atgcagacac
31981 aaatgtggac acacaaatca gtgattatga agttctcaca gaaacaaaaaa tcaaattcaat
32041 ccctaacgtc atgccccaga ccgacaactc atctgatgag tttgtatggag tctgagtcct
32101 tccgcacgtg acttagctt aaggagaagt ttccagagca ggatgccaag tttcttatct
32161 gaaaccaaat gcccacagg gactccccag cctccacatg ctctgacacc ttcagacacc
32221 atcaagtcca aatatggtcc atgcttctt caggccccctt aaccctctgt cagcaattcc
32281 cgtcatgtca cgatgccggg taccaaagggt gcctactgca ccgtcactct gtcatcccat
32341 caaggaatgt tttttctt aatcgccaa ctggcatcc aagctggaaag cccaaagcaa
32401 agaccctgg cctgtccaaag gtctgtatct tcagcatctc tggcaagaga gttcaattt
32461 tacacagaca tcctgtctt aagtctcat ttgttaccacc acctagttca aagtggactg
32521 ttaaaagttt gaccatcatc actggttctt aagggggttga tctctctgtt ccaggtctcc
32581 caatgcagct gcttagccca ggaaatgaaa agacatcaga caaacataaa agtaacatta
32641 aaaacaaaaaa ccaaaggaa aaaaaaaatc ccaaaccgta aattcattac tgctaaaatg
32701 ggccaaagca ttttgcgtt gttggctctgt ctcctcctgg atgccagtgt ttagggaaagg
32761 agatgcttc agcactctgt ggccactctc agaggacca acgtatgacaa cagagggcct
32821 tggtaagca tccttagactc ctcacccaca tgagctcagt gtgaccttgc caccactgct
32881 tgcttacctc aggcacaggc actggccaaa gaggtggct gcttaaggccg aggctccggg
32941 agctcaggct ggcttaggac ttggcatcat acagagctca tccatctgtc agcccaccct
33001 aaaaactcct gtataccact ccgcacatctg ctcgtctcac cgtgatcgct tttcttagttt
33061 atgaagctgc ttttcctacc gttgaacagt cccgagtcat aagaaacagg caggttagaa
33121 aaagagcaac cttgaacagt cttttatatc tcaaggaggg agcctcatcc catctctgaa
33181 tccaatgtta ggacattcct gaaaggagat ggcgaagcgt gggccccacc cagctcaggt
33241 tcagctctat ctccacgcct caggaaggc tttgtggggg cacaccttggc ttttcacgtc
33301 acctgcacatgc tttttttttt tttttttttt gacttcaagc agtgtgagct cctatcagaa
33361 ggggggggtt ggtgggggtt ggctcgagtg aaaaaggcca cgactcagct tggtaggagt

FIGURE 6N

33421 acttgaagct tgtaaagaga aaaatcagga agagggcgaaa aacatcagca tgagatcagg
33481 ctagaactgt ggatatgtat ctttgcata gtcggggcgc gtcagtccag cagaacgact
33541 gcaccctcgta caaagccaaac ctttttttatttgaatgt tttctggagc attagtttat
33601 gacggccact acgctgttgg tgccgtctct ctacttaaag gaaaaaaaaa aataacaccc
33661 acgcaaaaac aaaacaccaa caactcgac agtttcaaaa ataataataa taagggaaaa
33721 aaaaaaaccct taaaatcaat tgaatgaact gtagaaatcc agttgtggaa aaccggcagg
33781 tatgtgcgag aggataggcc actatcccag agtgcaccc acagtgtaga agaaaaccct
33841 gatcaaacag tatctccag tgaccctgtg agcatctagg aacccagaga agggcagcat
33901 tccagcagga ggcgaagggc tcctgagctt aaccgaactg tttaggcagtt tctccatact
33961 gggggaaaag attagccacc gcgggtccca gctgaagtcc ccaggggctg taagagcagc
34021 tgctggagtt gaggattgca ctgtccaccct gtgagcagca gacggatggg tggacagagg
34081 cagagcacgg ggaaggctag ggcgcacca ctggccttcc agcctcaaga tttggctagt
34141 ccttggtag ccctgggggt tgcgaaaaaa gggggggaaag ggagggaaaga agagggaaagg
34201 acagcagcct gcagggggca caggctcgat cttggccctt ttttataact ggccttctgt
34261 cagaagcaga agggggagct ccctgaccgc tgcacccca agaggaacca atgcacaggag
34321 agcaatggtg gcatgcccct gcctcggtgc aggtctcaga ggagcagctg agggggctga
34381 cagggcaccc tgacatgtgc acacattggg actctcaaga caacccatcgat gtgggtgcct
34441 cctgccccta aaacctggga gtacctgctc tcttagggat agaatttgatc agtcattcaa
34501 tctgttagaga aagttctgtt ccaaagtctcgat ccagctgagg atggggccggg gagccccct
34561 ccactggcgt gctgtgctca tggactgc tgggttggaaa agtaggggac caggtgagga
34621 gaaagaccag agttgcccata gaaaaagtgg gcttttggag acagagcagg aagaggctgc
34681 tcatttgagt tagcgttgc ttaacccctcgatccacatcgatccct ggccctctc tgcttcaccc
34741 gggtagtgg cctgcccggat ggctgaggat accaggatca ttggcctact gtcaggtaact
34801 gagaagtgtg agatgttata tatatatata tatatatatgt atatatataat atgcacacac
34861 acacatgaaa aacaagagtg agtagataa atgtttgaaa aacaagcccc cccaaaaaaaa
34921 ccccccaaaa ctgtcccatc taatacacac atacacagag atacatgtac ccttcctca
34981 gcatttaaat ccataacagg ggctttctca cagtgattaa aacaggtatc acaaaataaa
35041 taaaactcc tacatgaaaat accttcttaa taagcttccc ccctcctttt cccttaagg
35101 gcagaggctca ggaagagcca caagcctgaa cctacagaca agccagacaa ctccagctt
35161 ctttcctgca tctaattctcc agtcacaact gcaaccatca tcataccaa gttttcctac
35221 tcctaattta aatatttcca cccagaagca tctctcgccg tgcactgtct ctggtaagaa
35281 gtgctaaatc gaaacaagac aggacccctc ccccaacccc actccagggg gagggggctc
35341 caagccaga gctccggat tctggtaag gaggaacagc aaggggctct agggccactg
35401 tagggtcagc tctactccac tttgggattt ccggccgggg agtgggcttt atagcacacacc
35461 cactaaagtt gctgctcctg gccatggggaa gttgggtct tacatcttgc tcccaggag
35521 gccacccctt cagacaagct ggttctaaag acaggtggc ctgctgtga aggaggtggc
35581 agatgggcca ctggaccagc tctgctgcat cctggggact cagcagctat tgtgtgtgt
35641 tgtgtgtgtg taaaagatca aatattcatt taaaataataa tccaaatgact attgtctgca
35701 gttaaaactg ctattgtatt cccaaattgg ggtgtgtgtg tgtgtgtgtg tgtgtgtgt

FIGURE 60

35761 tgtgtgtgtg tgtgaaccaa agcaaggaga gaaagcaaag tgtgacttcc aacaacaggg
35821 actagaaaaca ctaaacccagg atgtgtggaa ttttaaacct ttttgttct gacctgagtt
35881 tgtggcatgc cttgcctgg agcagatgtc gtgtgcgggg aagcaaggaa aggagagagt
35941 agggcccagg agtctgtgg ctctggactc ccaccctccc cactccctca cctgtgactg
36001 tgctcacaga gcctatgggt tagagggtaa tgaatggggc tgcagggagc agggaaaggg
36061 agatgtatTTt ataaaaaaagg catcaaacag ttcacggcaa gttatgtcct agaagcatca
36121 gttgccggag aagaggaaga aaaaccacac tctagtgata agcagaggaa gtttcttgg
36181 gtgagcagaa aggaagaagg ggtagacctg aaagtttcat agataaaatc cacaagat
36241 aagaacaaaa aaaaatagc agcttttctt ttccctgtaca gatgtataga tgaatatctg
36301 aactgtaaaa aagttataaa actgacatta aagacgtgt gtatgcaat gttcacgg
36361 ctaacataga actgagagac ccatgaagaa gtcctagtaa cagaccatgt gaaagctcac
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36481 ctcgaacatc cataaccaac agccaggccg 36541 ctcaggggag gggcaggagg gaggtcgcc
36541 gggcaggagg gaggtcgcc agggggacga ggctgggtgt aggaccac
36601 tgaccaccaa cctgacccctt aagcttgc
36661 ctgtgggtgg gggaggggtg gagaaccagt tctgcttcc cctcttcaa ggagggcgg
36721 ttccatcttgc tccagtttcc ccaaaccgt
36781 tgggagagcc gggcacagt gggggcctca
36841 agacaccatg gttcatccca cgcctcttgg
36901 gtgtgaaaaa aaccaaaccg aaaaacaggat
36961 agccacggat gaacaatggc ccttttaat
37021 aattccatct cagtgtgtga atttttttt
37081 cctacgggtt caggcagggt tatgcgggt
37141 caatctgatt tttttttttt tttttttttt
37201 tttttccact gtaaaagcaga aaagagagaa
37261 cagagaggaa aggagagaga gagaaaaagg
37321 tcctgtgtt attaagtgtt gtcatcaagg
37381 gggtaaaagga aataaaaagc tgctgcata
37441 ctgcagagaa gcccgtctccc gtggcagca
37501 ggaggcttgc gaaatagattt ttacaacctg
37561 gtgggcgcac acacgttact gttggcgcgt
37621 aggactgggg cagaggcaag gcccctctgt
37681 gctgtctctc atcaaaaactg gcgccggagaa
37741 cttgtgtcc tgagtgtctt tcaggcagag
37801 gtgggacgtt ctccatgttc tcaggctcca
37861 tctcctcgct gtagtagaaag gagacctt
37921 tgccgatgtat ctccaggaag gagggccgca
37981 taagttcaaa cctaagggag tgatggggaa
38041 agaactgtac cacctctgca ctctctgtt
38101 gtatcttgcc cagaacccag gcccagccac
38161 agtgccaaagc ccagactcac ttcaagtctt

FIGURE 6P

38161 ggttcaccga ttccaccatg gacggttcta ttaatgatag cactgctaag agataaaacc
38221 cacttcctgt ctaagcacct cttctggcca cacattaacc agaagagggaa acctctct
38281 ctcactaatg agaatcacag ctttcctgac aggacccatt ctctgtatct cacaccagg
38341 ctatttctaa gtttcttcct ggcaccagg cgcccctggc agtgggcctg agggaggagg
38401 cggcaggggt gctagacaga cggagcacat atcccaagct tgctatctca cgccagcacc
38461 tgctcactga ggatgtccca tgaaggaaga tccctgtctt gaagatgttag gatgcccagg
38521 agcagagtcc taatagaaac ttcaagtcgg atgccaacga accaaggaa gtcctaagca
38581 tcattttctt ctacaaacaa ggcacaggta aaaacagtat aaagccatg acgtacctcc
38641 atcaactccca caaggtcaca aaccttcga aagttcctc gtctcgaga gttacatggg
38701 ccagctggca cacaggacag aagagaaagg ctgctcatgc agccaccgtc ctgaccagca
38761 aaggcctggg agtagacagt ggaggagacc ctaagcaagt gaaggtgtt attgctgaca
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38881 ccagtgtgc ttgcttagag agatggtaaa gccttccct gaggtccgag ttgcaagtgc
38941 tgacagtgtg tgcagaatat gtccactgtc acgtcccttc ccttggaaagtt tacagcctca
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39061 ctgcttcctt gtttatctgc atgcagtaat ctgcctctc gttcaaatat atacgctaaa
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39181 ctctttgttc attcccttga tgcctcgtc aagtcatagt tctgcaaccc aggcacatgc
39241 gtgaaccaca cctgggctct gacggatgga cagacacaca ggcccgcacag aaaacaagga
39301 cagggtggtc atgattctga gggaaaggaa taccttagcag ctctcaatca caggcgtgt
39361 agaccaaagc actctccacc tatgctcctc cagggaaactg tttttataa aaactcctgg
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39481 agcaccctga acaggcttct aacattctac caggctgatc actggccac caggacactt
39541 ctttacaaag caaataatcc cacagggta aaggcgtgt aaagcaacct attggtaggc
39601 atgaagttgc ctgtgcagag aaagccactc ttgcccacatc ggccagctc cttggactct
39661 gtaggatcaa gtcaggccag gtggaaaggta gttatctaa aactgaaaaa aggtgcattg
39721 gagatccacc tccaagaatt aagcactctg gaggcccagg gtgaagccaa ccaattacag
39781 cggagccagg tgcagcttgg agcctgtgt tagcggaaatt gtaccagagc agagctgg
39841 acacagcacc tggctgtt tctaagctcc tttgttagct gagtagttga gacagcggct
39901 gtttagctag gaaccttaca atattactg cctactcctc tggaggtaaa gaaaaatccc
39961 aattaagtgg ccaatgtctc gacggaggaa aacaaactgg accaaagacc aggctaacta
40021 ggtattctca ctggctctaa gtgactggc ctagtggcac atgacagggtt gcaggttaggt
40081 actaaaagct cttaggcccgg gagtcacgtc agtccccgg agccagagat gtctctttac
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40201 tgatcatttgc tctgaagtca cacagggagt gagctggaaac ggcgtgaggc tgtagacaa
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40321 cagacagtca gatctcctga gccggcttgc tctggtagc tgctgcagaa gcttggctc
40381 cccggcccccc atcatttccc gaaggattaa tcggaatggg aaggacac aaggagctt
40441 gctccgtggc caggctgcaa tttccctctc ggctgacagg cctagccctg aatagaaaaag

FIGURE 6Q

40501 tgcaaccggg ggcaagaaca tgagatgtgt ctggcccaa gccccgtggc caggggtggg
40561 gggtggggct gaggagggtgc cacgggcagg gtagggatga ggtgacatca gtaaaaaacaa
40621 gccatgtgat gcctttta aatcatccca gagtca gccc ttcagggtct gcccataaaa
40681 ggaagtctt tttgtctgt gcgatttaag accttgc tttttgttt tggtttttt
40741 aaatactctt tccacaagaa aactctccag tagactctgg gattaataag ctgataaaaat
40801 gctccctcta aaaagcacac tttaaaacca ctggacagct ctgatgagct ggagccgcga
40861 tttagacaat atgtccctt gtgaagggtgc acacacttcc ctctagaagt gagtgtatcc
40921 ctgggtgtta cggccaccgc tatggccatt cctcaacttgg ctcttgagcc cccaaagcaca
40981 ccccggtct tcagctggac aggctgccc tcatgtgagg cactggcaaa ctgaaatatg
41041 cccaggacact catgtataca gtacccctgc tgccgcctgt tagtactgtt ccaggttaga
41101 gtgactctta gcaggatca gacttcaga agggcctacg ggactgagtg ggtccctc
41161 tagcatctca agcaactaag gtttttag ggccaggacc tagacgggta tgctatata
41221 cccagttgtc ggcacacagt cgatgccagg gaccgtccag cagacactgt cacctgc
41281 ttagtactt attcaattt ttcgacaaa accagactgg gattcccagc ctccctgggg
41341 tggagaggaa aagtacagaa gtagtcagat tggactgagt atgtctcagc tgcatctgag
41401 ctgggtgacgc tcggcttagta aaacgttcaa gttccttctt gaatcccgca tcccgaagac
41461 ttggcatgtg agctctggag atgttaatgg atcaaatgg tcaattctgt ggctgagctt
41521 acatcgctcg cccattctgc agcacgaggg ctggAACCTG ttcaggatc tccagggttcc
41581 gtgactctg ggactggccc ctgacccctc cagggttcac tgacaaatct gtgtccaaag
41641 ccctgaaaacc caggggtaaa gatggaaatg ataggctccc ctgaccaggc ctcacagaat
41701 ttgcttagatc aattcaaaact gagctattgc actgacagtc agacctggat accctgggt
41761 ttgggtggcag ctttcctct aaagctagaa cactttgtaa tacacaaggc tggataactta
41821 gctactccctg aagcagactg gttcatgtgt agggacgacg agaccaaagc atggccagag
41881 aaagggtgtc tcctgcctca gaaccacacc atggaaatgc ttccctctacg tgtgagaccc
41941 aacaggcttc agactactcc caagagtgt tgcttactgt gccaaaaaaaaaaaaaaaaaaaa
42001 atcccttcac agaacacatc ttccctctcat cagcgctctca gccaaatcag ggcaccacac
42061 tccctactgg agcagccccc ctcccttccc ttcaactctgt tctttctta gaaaggagac
42121 cgatctgcca aggggttctt gaatggcaaa gcaaaaaaggc ctccctgaatc aatcatttc
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42361 caaatgtttt ctccagcata aaagaaaaaga aaaaaaccaa caataccctt cctgtgacca
42421 gccccaaacc acaggaacaa aactcacacc tgcttttgc aacggttct cagctcgtga
42481 gacagtgtc atccctggat cctaaccac gctgggtggg cacaccctta cacagactca
42541 gaggcagcca tgctcctact ccatccccc acctttggcc acatactgac tattctcgca
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42661 aacccagacg ttctcttaggc aggccccctg catcctgtac gccttcggag gtcagtttag
42721 aaaggccaca gtggcagttgt ttcctgttgc gatgctgcag ggcacagcag gccacggacc
42781 agtcagtggc tcaatatggc ctgctgtcta ttcagtttg taaggccctc ccaagcaaga

FIGURE 6R

42841 gggttttttt ttttacact tgccaacagc tgccccaaaa acaaacaat taacaagtcc
42901 cccacgcccc accccccaaat aggagtattt tataagaaga aaacgagagg aattcaaatt
42961 ccaatataaa gtttagttg ggcaccagca gtaacactgg ctgcaatcca agcaactaggg
43021 gagtttgagg caggaagatt atcctaaata cctgggtcac actgactcca tccttgtaa
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43141 gcaccaccaa tcctctccag tgtatttaga aaatcctctc agtctatgga gtggccaca
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43261 atccgatctc cttacaatca cccacgtac cggagtatct tcattctgcgg gaagccctgc
43321 ctctgaccag cagctatctt ctggagaccc tgagctagct agtgcaccc catcgagctc
43381 ctccttagtt tcattagaaa gcctgtgaga tgacattttc aactgttggaa gcctcacggg
43441 ggacgatgct agccccacacc ttgacatctc aagattcaga gtacagtcac tagcacctct
43501 ctgtgctctg cccaccactt gcactgcacg cccaaacctt ccatctgtac attgcctcac
43561 catccaaggc gccacgagag tgagcgctgc gctggggaaag agaaggccag gggtaggcag
43621 agtctttgt gtagaagtga agaaatctt acaacccccc tggattctt tcacttagtgg
43681 agctgaacct gtttgaagt gttctggaa aactgtatgg gtctgacat atcagtgaaa
43741 acctgcttg atgcttaacc cggagatgca gagcaacagc cgagcccccac cttaacgtgt
43801 gcacatcaaa tgcaagtcca ctgctctcaa cctgtactcg atgagccaaat cggaaatacc
43861 tcattcttc cttgaaacact cactccaaga agtgccattc tcggggctgg agagatggct
43921 cagcgggtaa gggactgac tgcttctg aagggtcctga gttcaaatcc cggcaaccac
43981 atggggctc acaaccatcc ttaatgagat ctgacgcctt cttctggc tgcatttttt
44041 cagctacagt gtacttagat ttaataatga ataaatctt aggccagagt gaggggggcc
44101 gaccggagtg ggcaaccttt gttccagca accacattaa ggctcacaac catcagttaca
44161 gctacagtgt actcatatac ataaataaaa taaatcttt aaaaaaaaaa aaaagaagtg
44221 tcattctca gaccactgaa gccaccaaca tcagatgaca aagaaagacc tctactcaag
44281 agagtacaaa taaaaggccc acatgtggaa agattctcc ccaattttgg caacaccagg
44341 taacttctga ggggtggagc ctaggaggct gccaggcat tagaaagttt tcttcaagat
44401 ttaggactac agcaggaaga ttgtgaaacc ctttaatgca ggggttctca accttcctaa
44461 tgctgtgtcc ctttgacaca gttctcatg tcgttgac ccccaactat aacactactt
44521 tataatttta atctgtact gttatgagc aaaatggaaa catctgtgct ttcttcaacgg
44581 ctcaggtaac tcctgtgaag gggcaagggg tcacgactca cagtagaga acggcttctc
44641 taatggctcc ctttcaactt caagccacaa agtgagactg tgcgtctga cacacccccc
44701 ctaccgttaac agttacctcg ccacaaatcc aatggacccc actgcccgtc ccacactggg
44761 agccaatgtg aaatgtttt ctttgtaagc tgtttatctc aggagatccc tcgagtcaca
44821 ctggctgagc acggaggtgg acgtgacacc acgtgtgtac tgccatcgag tgacaattct
44881 cacaaccaat cgatgcagga tggatattttt aacagaagtg gagcgaggca accatctcac
44941 caacccccc taggggtgtc ctacaagcat gtccaaagag ggatgagctc aaccgtgt
45001 taggtccatg cagtcgaag ggattaagaa gacagcagat ggtctgtgac cttgtgt
45061 ggctctctga gcttagtct acccgtgaa gagagtgact cctgaccaca gagctctgt
45121 tgagcatgct gtatagaccc tccagggct tggggagagc ttcaaatct ggctcagcag
45181 tagtaactaa cttgcatttt tggatattttt gatgaaaaaa gatgagccag

FIGURE 6S

45241 gattgctcat gtatttcaga gatgggagat gggggggggg gggtagtggt ggctgagacg
45301 cacgccatgg tgcaaagtgc caattagcac tggggggacc aagggggcac aggatgagat
45361 taaggagcag cacaaggatca cagatccaac aagctcagca gcagcaggat agagctttc
45421 taatcccttc ctgtacccac acacaacggg gtgggtggct ctggaaatac atacagcata
45481 tcagggcagt tgcggcgtt gtccagaagg ccaccctcca tgacgaaacg aagaacttgc
45541 tcgttggaca agccctggta gggctgctca gccagcgtgg cgatctccca gaggacgacc
45601 ccgaaggacc tacaggtgga acagaacagg aacagctcag aaaggatgg gaaggccat
45661 gtcccttcct tgccagcatt tcttagactc tgggtcttca aaaaaagtgt cctcaatgtg
45721 acgactgcac tttgtggaca tcaaaccgc cagcttgcata cgtgtggac atctgttccc
45781 ctttgcact gctaaggctt cctatagggc tactgcaacc caggcgttag gtaattaatg
45841 ttaggggctt ctaacatctc tcacagttt aagagccga tctacagcgg acacattcag
45901 tgtctggtcc cagccattac ttggacataa gccaaat tagtctca gcaaggaaatg
45961 cagaggacca ggtcccaggcc tggccactga cctgagacag ctaagcatct caactatctc
46021 ctgcaggat ttcttcatg ccagctttaga aatactgtatg ctaatggttc tccacgcctc
46081 cgcaagaaga atctgtatcgg gtttcttaaa acaatggta tcttgggctc tccaaagcaa
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46261 tgcagagggt gctgtgtcag gaaggaaact ggggttaggat acactggcca ggggggtgtgt
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46381 gcagcggagga ttctactgcg tgaggtatgg cctgtcagcc cagaagatgg aactaaagga
46441 gatccatgca tgcagacact tcagacagac aatggtcaca ctgtcgctca gtgtgaacac
46501 accttctcag ggagaaccct tgcttcaca aaattcttc tggcctgtct gctcttatgg
46561 tcaggctgta tggctagaat gaagaaggct gcccattggca agccaacaca aggcttcgg
46621 tggaaacccta gcagggtcga gcccacaga agagccttag ggcgcattt tccacttagc
46681 actctgagga tcctggccta agctggagca acagcctctg actgcattttt aacttttgg
46741 tcgcagcttc agtttccttc taggaacaaa agggtttgtt cccaaactgtat gctaagcaat
46801 gtcagacagg aacagaaccc tcaatcag acccaaggcc tttggaaacc ggcagtcact
46861 aagacagaca gtgcagttac gttttcaaa gacctggccc tagagaagca gttttcctgt
46921 gtgtttcagg cctgggttct gccttgcaga gcctttgtgg acactcggag gcattctta
46981 gaggctgcag tgctcaccct catgtctgaa tccggcctga gacaaggagt gatgtatgt
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47101 tttcatgtt tccctggtgc accacaggct ttcaggcatt cagtcacaat cctggccccc
47161 agctcttgac tgccatgtct agattgtgg ttacttgact ctacagactc agcatgtcag
47221 ctccagtgtt actcttgctg gcaccctgtt ctcccttgcactccctgca ggcacttc
47281 ccattccatc ccaccccatc tcagcggccat gtcgtctcat aggacggaca ggaagataga
47341 gagtataaaat cagaaagaac gaagacgtgt aagggtggc cttctggccc ttgtgaggga
47401 ggggacagtc cctgggacat ctccccagaa gctcaaataa cagctgtat aaatgcagat
47461 ggtcagggtg tggcttgacc tgaggacacc tccccttaccat ggtcttccat
47521 caagtcaaac aaaatccttc caactttctt ttggattttt acctacttct gactgtgaat
47581 tcattctaaa atgactgcaa ttcccttagc aagcagaggt tcagggcagag ctgagcatcc

FIGURE 6T

47641 gtttatacgt tctagtgtcc ttgatgtccc cagctgtgtg ctc当地acacc ccagcaccc
47701 gccttttctc ttcaacgcatt ttcttattgg ttgtatgg ctacgtaatc caagtggagg
47761 aaacctgcag gaagcacccct gtgcgcctct ggctgtggca tgcagttgtt acccagagtc
47821 gggggagaat gagtctgtgc tcactcttc cctatcctgt aaggatgtt ccaagctcc
47881 agaaaaatga agcttagaac aaacagatgg aagtgtggcc ctaggtgtc cctctcctgc
47941 gacctcatct acacatggaa cagagtctt tgattcgaca gagaagatgt aacctcgag
48001 aggctaattg cagagcagac ctcatcctag agtggggaaa caaccaggcc ggcgtgggtc
48061 atattcaaag gctatttcca atttgcaccc gtcttccaaa caagatccaa ggcttgcac
48121 cgggaaaggt tcacgaggct aaagaactga tgcagtcac tactgagata gtttctctgt
48181 gtggtcatcc gccccttggaa taaaccacc accgcttctt ctgtgacaca acagcaacgg
48241 gatctcccgaa ggagacagcc aagacacttg ctgacattcg aggagggggca cgacgtgcca
48301 gggctccgtc ctgccaagaaa ctccagttgt atttggAAC ccgatgaccc ccacacgggt
48361 ttccaagga actgcagtaa acattactac agagaagtct ttgcacccctc tggtcagtt
48421 gctactaccg caagacactt attattaagg aagatgctt gggtcaggaa taatggacat
48481 cgtgtgtgtg tgggtgtgtg tgggtgtgtg tgggtgtgtg tggtaacaga
48541 tgagaccac agaaaaccac aaccaccaag actcaagttt tgggtttaaa taaagcactg
48601 ccttcaatct gaagggttcg tgagctgcgg caggagcaca tacataccctc gtaccaactc
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48721 tggaaatata atcaatattt gctaaaaatg gaaggaaatg ttgggtctac ctactccctg
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48961 accagacatc agaatgagta gtgaagacac catcctttag ggactcgggc gacatccagc
49021 gcacaggcag caaccccttc ccgccttcc ggtagtagtc cgtctcgtag atgtctcgtag
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49201 tctagcatca cagccacttc acaggagaat acaagacatc tctggtcttc atcaggctcc
49261 ttaagaaat taactccctt ataacattt aagcgagagg cagtttgc当地 aatcattgag
49321 taccatgatt ttcaagaaa atatacccg cacagggtgaa ggatatagtt taaaagttt
49381 gtccaaataca cgggaggatg aagaccccat ttacttggta gtgtctct actgctgagg
49441 aaaaggccctt ttgccactcc acagaggaca atgtacgaag taagaactca ggaagataaa
49501 aggacagcaa acagctgaga tggcttcac caggctcctg gagctactac ccaacaccc
49561 ttcccaacac aatactctca ctcagttttt aaaaatgtttt ccatttctg agtttcatca
49621 tggtaatgg caggcttgc tttttataat ctcacattac tgggtttt tccattttt
49681 atttccact caaccgcacc acctttccct cacataaact tttgcattt cttccctgg
49741 agggaaagagc tgctcaaccc taaaatgtc ccctcgccacc tctaagtggt gccacaaaaga
49801 ggtgaggtac aaaaaggca gagcaaaaccc atgttaggggt tgctctgcat ggatgttaac
49861 ccaacacaat tgacttgcac cgctgtctga gctactggct gcctcttgc aactgattta
49921 ggggtgttaa tccctgagat gggggcactg ggggacactg aggaatgcag aactcgcccg
49981 aggagggaaaa aggaagtgtct taaatctcat ctctgatattt atccaaqagac atqcaaattt

FIGURE 6U

50041 gaggatctgc tttgacttgc ataaaagggg aattctagaa aacaatctct ctccctaaat
50101 gcaaaaagaaa aatagaacaa cccctcttc ccaaacgggc acacacaatt taattctaaa
50161 aaaaaaaatc ataattataa tagaaaatat cctcataaaat gcgccacatg gttaaagcaga
50221 aaatataatc cttactgatt tggatttaaa atggcaaaaaa gcacacgcac acacaaaagc
50281 attttccaa ctgtaatgca aaatgggacc aaagcagcct ctcggagttc ctggctgtgc
50341 tgagaagggt gcacagcagg gtaagatgag gacagggca caggcttgct gtcccagccc
50401 gcctcctcct ccagctctgt cccaatccac tctcactcca caggtggga aagatggcac
50461 agggagggaa ggcacctgcc tcagccact caggagcaca gtttctctg aggactaaaa
50521 tctagatccc cacacataag ggagggatgg gaggcagaa ggaccacaaa ggctggttaa
50581 gaggatgcgc ctcttatcta gaaactctgg ggcggggat cctcttaagg gctgcccacc
50641 aagctaggct cccagggctc caaatatgag tgtacaaaacc cagagacagg ctgggggtat
50701 cttcagtaac tccaaatgact gacatctgtt ctgtaaacaca gctgcatgcc aacacccctca
50761 actcctgcaa tcagcaaaaga agagagcccg actttggata cctctctaga gatgacaccc
50821 atcgcttact aagaggccgg aatggctcat gcaaaaaacca cttcttagggt tgaggcaagc
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51121 ctgttaaggct ggggagaatt tctagccaaat gaccagagat gtaatgcaat cagtgtttta
51181 ggatcacaat gtgttggcag caacaaggta ggctgagcag ctaaggtcat ggcaggaaagc
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51661 aagggtgtct cccgggttaca gccaggaata gacagtacata ccgactacat acatctttgc
51721 actcaaggc gaggcactgc tcctctcgga cataatggaa atctctccag tggcagacta
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52081 ggtctacact agagtcgtt aatgcatt tacttagt gaggaccaca ggtcacctgc
52141 agggagtcag gacttgcataa gaaggactag cacttctagg gaccagcaat ctctttccc
52201 acccccctccc atgcatgcat gtgcattggat gtggggcct gaagctttagt ttgggagct
52261 cttctaccc actgggttagt gcagggtgtc cctatcaaacc ccaacctggc caacatagat
52321 tgctctgggg atcccaactc atccttccaa ggctggaatc acaggtgtc tgccacacca
52381 gcccagccctt tacctggctt ctgacgaccc gaactctggt ctttatgcct gtgaccaccc

FIGURE 6V

52441 cctccccctt agtctttctt atttggagca ggacaaaaat gattgaagt gaatcagcaa
52501 gtttaggcat taagcattct cagctccagc tagttccat gttccttgg cttccgcatt
52561 caccaagtgt gagtaagagg aaggacagag aaccctgtaca aaggccacgt gaaacagaca
52621 cacttcctaa gtggattacc acgagctttg cttccgtgc aagctgccag gacttattcg
52681 tcttcattcc cttcttctaa ggtacaaaga taggaagact aatgcttcc tcttgattta
52741 ctgtttcta cgggcactga ggataaccac agttcaggtg gagttcacct tggaggggac
52801 caaggacact gaggcgaat gaggaccaat atcatgtctg aagaggaggg caagatgctg
52861 ccttaggaac tgaaaagaat taacctaaga agtggtaaaa tcataaacaa acaaacaac
52921 aaacaaaata agataagatt tatgtctaa aggtctatgaa gaatggctt gtggggaaagg
52981 tacctgctgt caagacagg ggcctatgtt catgtcccaa gacaggtatg gtaaaagatg
53041 aaaaccaact ccctcaaggct ctaagtaggt atgcacatgc atatgcataa acacacac
53101 acacacacac acacacacac actacacaca tacaaacata aaaaattccc aaagctccgt
53161 cacccttactc ccatgtgcaa aaccaaccat gaccctttagt cctcagttt cctaactgaa
53221 aaccttctca tacaacacta tgaagccatc tcatttcata atgtatctca agtcacagga
53281 gagcatgacc aggcttggag atcacactat tgggctagt atataggccc tttgtctct
53341 gaccacgatg aacactcaag agcattctgg ctcttggcca ggggtgctaa gttctcagca
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54241 ggaggccagc agaacagtga ataccgacag ttatgagccg ccacgtgggt gctggaaatc
54301 caccctgggt tctttggaaag agcagccagt gctcttaact gctgagccat ctctatagcc
54361 ctttctctct ctacatgagg aagcggaggc ccagaggcat ctgttaactg aggactggag
54421 gtaaccaatg gcaaaaaacag ccccgagagc acaagttacg ggttactct gggcatgtgt
54481 caaaggcatt aagcacattt tgatgttagg aggtgcctt aagaccact ctccagtc
54541 cttctgttgc tgggttattt ctgggttgg atgctgtgc tggagaaaac aggcata
54601 ttgtggctct gctatcaatg catacaccgc cttgtggctc tctcctgaaa ctccagaaac
54661 acacatgagg acatttgc acaggtaactc agaactaaaa tgaaggaacc atccatca
54721 tggtagatga ttacgttgc gaggaaaaga aaacgaaagc ttctacagag aaggggagca
54781 aacccagaaa gggcccgaga agaggaagtt ccccttacag cgaatgcaga gacaagctgc

FIGURE 6W

54841 ttagtttagcc acaggtatca aagccaggc cgaagtgaga gcctcagagc ctgaggcagc
54901 cccatgaaag gcattggc cagcaatatt tctcaacacc cccatcagtt aactcttagt
54961 gaggacttag aagccaaact taagccaggt gcttgggtg catacctta atgccagcac
55021 ttgggagaca gaggcaagcg aatctcttag agttcgaggc cagcctggc tacgaagcga
55081 gttccaggac agccggggt gcacagaaaa aaaaacaaaaa caaaatgctg tctcaaaaaaa
55141 caacaaacaa acaaacacaa aaataacaac aacaaaaaaaaa aagttagact cacatatgct
55201 aaaaagctgg ctgtgggcta acacaacaga aggggacact ccacagtgc taatcaaaaa
55261 attacacagg acctactcg gttcacagtt taaaaatctc actagcctta agcagaatca
55321 tgcagctgga atggttatac tttaaaagcg cagggcacaat actggcttat tgcctagcct
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56041 ggctgagaag caaatggact taaagacacg tttcctacaa gccagctcct gaaaaaagtg
56101 gaccaagcaa gataacacacg cgaggaacaa aactgaccc cacttctggc ctcagagacc
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56461 ctggccaagg acatacaggg tggccttgc tggccatact ttctgtccat gtctcatctt
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56761 ctagtaacag acaggatgga aacggccctt agacagagat tacaagatgc tggccctaa
56821 gacccaccaa ggagaacatc aaggtaaaaa cagtccagca cgggtactca atctctgagg
56881 actccatgac actttgaggg tggtactcg agctaagaac cagaaggaaa ccaagaaacc
56941 taagatagga aaaccaaattc aaacccaaaca acagtggtc cttttcata tccttggcaa
57001 aaccccaacc caacaaaata aaaaaagcaa attagcccta agagacaaag aaagtggac
57061 ttctgttttgcctgtttca tcaagggatg gaaatgtagg tcagaagggg agaacagtgg
57121 gaggggaaag gaccaaagg ggtcaaattc cctcccttgc ggatgaagcc agaggtgaga
57181 aacatcccttgcatggcctt ggtgccagtt tacaggccac ccagccccac tggccctt

FIGURE 6X

57241 cagcgcttga agtcgtgctg gaagtaagac atatactgca ttttaaagac ttgcttaaaa
57301 caagtaaaaa aagataactt ttaaaaagatt taaaatatta cgtatacatg tgaaaatctc
57361 tctctctctc tctctctctc tctctctctc tctctctgtg ttgtgtgtg ttgtgtgt
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57481 agaagacagt' gttggctct cggacctata gttacagatg gcggggaggc tcttcacaga
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57601 cattttttt tccagcttg tattccaaag acttggtaa agcaagttt aaaaagatagc
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57721 agcttttaca cttaaaaaaa catggctact agctgggtgt ggcacacagga aactgcagtc
57781 ccaccccagc ccactgggc tggaggttgg agatggggtc tgcacttca aaggcatctt
57841 cagattgtgt ttcaaaacac caagacaatg tgcagccgc ctgggatgtc tattcattca
57901 cgcacttcat tccacttctt ccatagccat gtccgacaa aagctcaagg tggctgagag
57961 ggagaaactc agtcaacact aaaggcagag actcaagaga agagtccctca gccatcaaaa
58021 gaaaccgcag aaaaggagat gagaggccag ccccccacccc caccggcgca gagcgtgag
58081 gtaggtcttgc tgcactacaa gcactgtctc cctatattcc tccatacagc tttttaactc
58141 tggaaagctgc agaggttggat tccagttaa cacaccctgc tgccctttc accgagatct
58201 agtgacgata cagactgcct gcctttcca cctgagagga aggagaactc acacgttgc
58261 gaagaaaaaa gcagggttgg gagatgaaac ccagggttca aatcccgat gattcaaggt
58321 gctctacagg ctgtaaaatg cagttaatc ccagggttgc gctgtgttgc tttcaagtg
58381 atttgacttgc gtggaaatgca tactgtttt aaccatcaa tttgtgaat ggctgtttc
58441 cctgcatgca tctgcaactgt acgcacatag cacctgggtg ccactggcac gtgggttctg
58501 ggaatcaaat cagggtcctt ctagaaaagc agccagttgc tttaactgct gagccatctc
58561 tctagccccg gaatgcatga aagtattaaa acttaacaca agaagccaaa ctcttgccta
58621 acacagggtga agcctaggag ccccttcca gggatctct agtgaggaa gtgagcgtg
58681 ggatggaggg ggactcagta gtgacccac ggctttgcc tgcactctgc aatgccagga
58741 acctccctga cacggacctg aacagaattc cttctccagc ttccatatttt gtttatgct
58801 gatctggttt gagaaaaata aataaacgaa tagttcttag aagaaggaa gaagagaagg
58861 aaagaaaata agagaggcaa gtaagaaaga ccaaacacag gctccatccc ataacgccag
58921 tgggtacagc gagaactgaa atcatatcaa attaatacgt aagatctgga aagagaatac
58981 ctgctccatg agaaccataa cctaacagag ttactgacag ccctgtctaa cagaggatgg
59041 ccagcaggca tggcaagaag gaagccctag cttagagaca ggctgggag gggatcagc
59101 gctgtgtttt ttttatgct tttagatgcc gagctgcagt tggaggtggg agacccacc
59161 agcaggcat cacggttatc agtcaccctc agagcacaag cccttacttc taagtgtatgt
59221 cttaaaggaa ggggttttat tataaattcg gggctggga cccattgac ttgtattttg
59281 aagaatggaa catacatctt gtgggtttt gaataggat ggcacccaca gactcacaca
59341 tttgaatgct tggtcattag ggagcagtga tacctgacag agattaggag gtgtggcctt
59401 gttggaggaa gtgtggcacc gagggtggc tttgaggttt caaataccag gcctatgtct
59461 tgctctattt ttgctgcctg atccagatgt agaactctt acccctctcc agcaccatag
59521 caccatgtct gcctacatac catcatgttt gctaccatca aacatgggc ctaaaccct
59581 gaacatgtaa gtcctttaa gccagccact ttccatgaga agagctgctg tggtaaacgg

FIGURE 6Y

59641 tgtctttca cagcagcaga acactaagac acataacttat ctgtctactc acttactctt
59701 acttactggc tgatttggg acagactgc tctatcttg tcataacttgc cttgaacttg
59761 ctatgtatc caagcttagcc ctgaatttgc aactttctg cctcagtgtc cccagttacgt
59821 ggattccagg tttgtgtggc cacatttgc tcctgtgc tttttgtat ttcatggat
59881 atgtatgtct ggtaatttct caactagaat tctgtcttcc atgggcctca gacaacttgt
59941 gaccctgcag aggctgagct tgctgaggag agcagagggg gaaaggctt tataacacct
60001 ctctgtttaagg atggggacca ctgttccat ttattacctc taaggatcca ggctggctt
60061 taatgagaat caactacacg gcttgc tgcagagcat ggagtaaaaa gcccatttacaca
60121 tccattccct gggaggtccc tgaagttgt ggtctcaacc cttttctaa actcaatcca
60181 gctgccgact ttagccagag tacccagct ttgcagcca gagctgttca taaacttcgt
60241 acaatgttat cagcaatttc ctgttagggca ttctcagtgacttgc acagcaacat
60301 gcagatttaac tctgggagaa agacgtttt aaagcacatt tcagatgcaa tgcactttt
60361 tagcttttgc aggcaaaagg cttgtgc tgcgtgtt gtcacaaaggc caaacaacc
60421 aagtgcagat gaggtgacag ttttccacc ttttgc ttttgc acctttttc tctttataa
60481 tgctttttt tgaagggggg agggagacta ttctcagtgacttgc acagcaacat
60541 ttatttgc ttttgc acacacaatg gctgcacggg tttttttttt tttttttttt
60601 ttccatcat ctgaggccag gagtttggg ctggccctgta taaaacatgc atatttagtt
60661 tcttgatttt tgcccggtt ctttctgtt tttttttttt tttttttttt
60721 ctggAACACC gtaggcaat gctctatcac taaaactacat atccaaactc acttcatttgc
60781 tttttttttt tttttttttt tttttttttt tttttttttt
60841 tttttttttt tttttttttt tttttttttt tttttttttt
60901 tttttttttt tttttttttt tttttttttt tttttttttt
60961 gttttttttt tttttttttt tttttttttt tttttttttt
61021 gttttttttt tttttttttt tttttttttt tttttttttt
61081 tttttttttt tttttttttt tttttttttt tttttttttt
61141 tttttttttt tttttttttt tttttttttt tttttttttt
61201 aactccgtcg ctgcacagac ccccatctaa ccagattttt tttttttttt
61261 cagctatctc ttccatatac cccatcatga ggatttgc ggttgc
61321 tttttttttt tttttttttt tttttttttt tttttttttt
61381 tttttttttt tttttttttt tttttttttt tttttttttt
61441 tttttttttt tttttttttt tttttttttt tttttttttt
61501 tttttttttt tttttttttt tttttttttt tttttttttt
61561 tttttttttt tttttttttt tttttttttt tttttttttt
61621 tttttttttt tttttttttt tttttttttt tttttttttt
61681 tttttttttt tttttttttt tttttttttt tttttttttt
61741 tttttttttt tttttttttt tttttttttt tttttttttt
61801 tttttttttt tttttttttt tttttttttt tttttttttt
61861 tttttttttt tttttttttt tttttttttt tttttttttt
61921 tttttttttt tttttttttt tttttttttt tttttttttt
61981 tttttttttt tttttttttt tttttttttt tttttttttt

FIGURE 6X

62041 tcagctgcgc taaaatactc ggggttcaca gaagcataca gcactccatt gcccaacctg
62101 ctgttatttc tgtcaaaaaa aaaaagatga aaaccaggtc aacaaatccc atctctatac
62161 atttctgtaa atacctttc tttccctttt tttctttctc acgagttatc ttgagaagg
62221 gacgcaaacc atgatcactg ctgacgggac ccttgcctgc actcctgatc caggccccgg
62281 tatctgagga caaatcttc cactttgcc ctggcctcag attagagctt ctaaagaaac
62341 atttgtttct ttgcttact gaaataaca aggcccactc catggaaagc taaactggca
62401 tgcttgaga agctcttaca aggcaaatc ctgtgtgcta gaacagccag aaagcagacg
62461 acgggtacag agaaggaagc aaccctctc ctgttgcgt tagtcattag gaaatgtcct
62521 ttttccct ctgaagaatg tctgactagg aactctggct gtccagtcg catggattt
62581 tcccccacag acgagctatg ttcaagttca aatcatcaag ccaatgcgcc acaagactg
62641 tcttccgctg gcccaggcac tcacccctt ctatggaaaga catacagcat gataaccagc
62701 cccccaacga tcagcaggat ggcaaccggc agagcaatga tcagatgcata gaaatgtc
62761 tacgtcgctg cagagacaag gaagaaacag gaagacgtca cgcacgaggtaataactgg
62821 ctcacttcat ttctgtgtat ggttggaaagg atgataaaac cgccctctgga atagccctta
62881 ctccttcattc tcacaagagg agtcttcgag gagtcttcta gtgctgggac aagaccagca
62941 gacaaactga attgttggaa gaaaggtaaa taaatacaga ctgaagcaca cactccctta
63001 aagcaactgca tattctgaat acagcaagta attctgaagg caagcccttc ctgtgtgttag
63061 ttttggaa gtttagctga aggaaaatga gcagacactc acacacttac tagttgctca
63121 cgctattctt atcttttaag aaagtcccac agacagcttgc tcgcccactc ccgtcccccc
63181 aaagcaactgg atgacactcc ctgccaatgt tgctctgagt gttctacaaa tatgtaaaac
63241 caattcaagt ctgaacttgc taccgtacc tgggtggtaa gtaccacagg atggccctcca
63301 ggggttcagg tctacaccc tcggaaatcct gagaattctg ccagattcaa gaactcagtc
63361 tgtggacagg tggattaaca tggatgtacg ctggcatag gggagaagag agatggggga
63421 gcgagggtt cttcccttag gggaaacggct tcccgtgcag aggaatgtct tgcaagatgt
63481 attgaatgtat gaaaaatgggtt ggttccagct aagtggtttc cgcccccattc ttcagattga
63541 gaggagtccat tggcagcag ttaagcctat gaactgcagc agtgcaccagg atattggat
63601 gttcctcagt atgtAACACT ggcacccctga tctgggaca accaacagct gtctaagtgc
63661 actgaaggcc tgagcactgg gaggaaattc ttgcccatt ctgtaaacct agctgactct
63721 ctgtatgtc gtggacacta gagaagaacc tgctactagc actttctga agcagtgc
63781 ttctaccac agataacttag ctctcaggcc tcgcccagaga agcctcttc tgcagcagat
63841 gggaaaggatt agagaaaacc atgactggc aaaatgcagg gaaccactga ccatgggta
63901 cccatgccc actgatgata gaccacacc acaacccca caacaaatgc tcatggaca
63961 ctgcaaaata agtgcgttgt acgattctaa gatccagaag cccagggtgt ctgctgaggg
64021 atgccacccct ttatgtaa caccacccgc atgcgtgaat cccacaacgc cggttaccta
64081 aacttgcgtatc atgacaatac cagttcacat gctttgaagt gtgggaaatc tctgaagccc
64141 cacccttaga tgagaagttt ccagcaggta atggctgtc agagagaagg aggatcagtc
64201 ttatcaggc ataagcttgc tgataggtt gccaatccca cgtggcattc cctaaacaca
64261 tacatgtacc agtaacacta aatgagcttgc cagagcatg tggatgtatg tatgttaggt
64321 tatatgcata tatgtatata gacatataatg tatcaatgtc cgcacaagtt gcttagcaac
64381 aataattaaa gtagtcatgg aactgagaga ggtggcatg gaagaagctg ggagagggag

FIGURE 6Z

4441 gagccagatg gtgtaaaatac agtactcatg tcagaagttc taaaaggcta aaactaaaaac
64501 aatgaagaag aagcatcagt gaactcttcc aaggccagac tgaaaaacgga ttcatgtact
64561 gggaaagatga gtgtgtctga ggacacactg ggggcctctg cacactgcca ggtctagagg
64621 agttaaggga acgtaccagt ctcctgtggc atgctatgca tcgctccagt cagacctcag
64681 gaagaaatcc tttccataa gcaagatcag agaggcgtcc taacttgcc agggttgcac
64741 ggataactga caagttccaa agtcagagcc tggcttccct gcagccctgg ctcagaacag
64801 ccgcaaccca gtaactgggaa ggctggattc ccgtcatgta ccagaaaagaa tcagtaagac
64861 tccagttaat atggaaaacaa aaacaacaa aatgagttat gcggagaaga agaagcgaag
64921 ggctgtgagc tttcatctga gagcccaacg gaatgcagat cagggaatga aacggaccga
64981 agtgcctcca tgaaagact ttagattca ggcttataag gagtctatag caactattgg
65041 acacccaagt tgacatgtct acacaataag gatggcgttggggaaaaa cacttgctat
65101 gttaccctgg caaccagaat tcaatccctg gaacctgaga atcaactctt caatgttgc
65161 ctctgaccc tgcacatgtg cacaccaagt acacaccaac agtatacgaga tgcctccttgc
65221 gaaaggagct gggactcag tggagacatg tccctggacc gcgagccact caccaatgg
65281 tggctcacct ctaaactcta ttcttaatcc tgaataacta caaaagccaa aattaagct
65341 tttcaaaaat cgatgggatt cagcacccctc cagttctaa aagtactccc acgtgcgcct
65401 ccctgcccaga gagaagctcc gagcttccttcccttag gagaattcgt gttttgtgt
65461 tcctgattct acgggtcagg ttgttctgtg ttcttttga gttcacatt tcaacaggg
65521 cacagaggaa ctgaaacaca tccagaagga caaaactgac agaaaattgt ctatgcaact
65581 ggcttcaag aaagggccca aagacctgag aatatttaat cgggaggaa gaagtctgaa
65641 gaggagttt atagaattca cgcaccaaga tttccttaaa aacagcaggt gatgcccgg
65701 tttcaatgtc cccctctgag gattagaccc aagaaaactg tgctaaactg cgtcttgc
65761 gacaccggaa aaatttccca gaagccaaga gcgcctagcac gcagcttcaa tccccctgt
65821 ggtatgtgcca acttccactg gagaaccccccc attagaggac ctcttaagag tccccagtg
65881 cattgcagtc ttagctttac aaaggcagct acaaacatgc cctctcctaa gaaaagccag
65941 actcaacttag cttcagaagt caagactgct cttcagaga acaccacccca atttccagaa
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66121 ttaggagctg ggttcttagag gaagtcaaggt cactggaaagc aggtgtcctg tgagagaact
66181 gtgaaaccccg ggcctttct gccttttggaa ggttaaccagc ttggttccat catgtgc
66241 ctgcttctga cattttgtct cagaacagcc caaaagtaat agaatcaaca gacagagac
66301 gacaaccccc gaaactgtgg gggccaccccc tctaatacatc tctgggtttt gccacatcg
66361 agagctacag taacatcaca atggagagtt agcacataag ctaactgtat acgcttaggt
66421 acccagaaaa aatgagaaaa attcagagtc tacctgacag aactctcagt ctcatacatct
66481 ctaaatcttag acacagtagc agcagataca gggaaatccct a gttccctgct tacggttcta
66541 ttacttctg tctttgtcga gtcacgatga ggatttcga atgtcttgcg tatcttgg
66601 tatctggAAC tggcttaggtg ggctatcgaa gtgtgaactg acataaagtt atacatgtat
66661 acatatttac cacatacaac atatcttaaa gcatgtgtac attaaccctaa tcagcatcag
66721 cattaagtcg cattgttacc atttctgtgg tggttaacact ttcttagcaa tattcaataa
66781 tgcttttatta accatagcta gtgtgttata aagctcactc ttctatctac ctaaaattgt

FIGURE 6AA

66841 gtacctttt agcaacacccc cctaagttat gttcccttgg taacctgcaa gactctgagt
66901 tcaccctttt agatttattt catatatacg tgagatcacg tgggtttcc ctttctgcac
66961 cttctattaa cagtattcca ttacatataat ggaccacatt tttacccagg cacctgctgg
67021 aggatacttc attgtttggc tactgtgact agtggggccaa aaaaacaagg ggggtgtaga
67081 tttcaacaca actaacttcc atttctttt gactgggatt gctggatctg ttgagacctt
67141 gtctgaatca agaatccaga agagaccacg aagaacataa gacatttagga aacaacagtt
67201 cccccacaccc tagattctag cctcaaagct gagctgagat tttgggggggt ggggagtgca
67261 aaaggaattc acatttgatc ctgtattttt ttggatatta catgaacacg aaataatcta
67321 aaaaaattt gcttctcata agacacgtaa aaattcacta tgtattttt caccaaaaag
67381 actcaattttt tttttttt cggtcaaaca agcatgcacg ccttcattt aacatttcac
67441 aacatttact ttaaatctg aatcttaaca gctcacttcg tgggttctgt gaactgtgaa
67501 acattatcca cttagggtgg tctgtgcaaa ataacgcaca gagatcttt caatgcaccc
67561 tgggtggatgg tgaagagcac agaggagggg aagactctga ctggatgtt gtcctgcaga
67621 ttcctgtccc ggagcagtga caccagacga tccctgggg aacgcgtgac gctgggtcac
67681 cctcaccgac caggcaggag acctgatact caactcaatg ctttgcaaaa tgcctccaca
67741 cctgagccac gatgagaaca agatatctt taggttgcata gatactctt tgtaactcac
67801 aagagaaggc tccaaggctc agcaccttcc cagctctggg atgtgcgtgc gagtgcacgt
67861 gcgtgcgagt gttgggggtgg ggggaaagggtg atggtggcac agatgtgtgt ccactgtgag
67921 taaatacca gtgtcttctt ttctggcgtg acacccctcg tttcttagata cggcttctcg
67981 ctgaaagcaa aggtcaccaa tggaccattc tggctagctt gggatctgca aaactttgac
68041 tgcgtatctc ctgagcaccc aggaagcaca ctaccgcacc tgggttccgt caaggacttg
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68221 agctttgaaa ttaccgtgc gtctccctca ataagactt ctttggcgg ggacatagaa
68281 gaacacagga tctgtccatg acccattccc agagaggag gtagcctgaa tccgggctgt
68341 atagttccct gggtttagac gttgagttt gccccctccg tacttccctgt actcctgtct
68401 ggacacacat tcccgtat cctatggaaa tataaggcgt taatttccta caagcatggg
68461 tgagatctga catctgtcaa ctcaagtcat catgctgtga ctccagctgc ccaacccctc
68521 cttacattgt ccagagtatc aacataaagg aagcaaggat accggaaaag tggttttcag
68581 gttggcacat gggaaatggt aatcaaataat gttggtatt aaatcaaata tgggttac
68641 tccagaggaa taaaagatca tcaagacgtg tctagctgc ggctggaggc cttagctacag
68701 tttcatgtt tggatgaagt ccagccagct ccatgcaccc aagttactac tcaataaaga
68761 tggcgttgct aggaagaccc ttatccttcc cgactgcacc tcttctccc ctgtctgtt
68821 agcagtctcgc agacaaccag tatgccatag cacgtctc cagcgctgaa acacatgcag
68881 ctgcaggcca tggatccctt cttacctcga ctgcgcaccc gtatttaatt tcatacatta
68941 ggtcaatcc gttgggggttc tcgggttctg gccactttaa aaagatggag tttcggggtc
69001 ttggctccca ggtcaccggc ccaggatcatctgc ttcgtcataa ttaatgtaaa
69061 caagcagtca aattgggtt aggtccccag aaagaatgtt aaacgggtgt ctaacttgag
69121 aacaactgtt ccccaatcc ttgtatatac aggactctgg acaggggacc ttgttaggat
69181 tcttcctga gatggctgct ggcacagcgc ctccatcccc tctgactgaa aaaacctgtg

FIGURE 6BB

69241 gccaagtaca agtgatcacg cctgaaaaac ctatgtaca ttctccaggt ccatttcct
69301 acctaaaaag ttaaaaaaaaaaa aaaaaaaaaa cccttcaaac agagcggccc tgggaaagg
69361 cagtgagcga cagcgtgctg agcctccagc tggactg acacattcac agcccacacc
69421 ctcacacggg agggaggaag gcccagttcc gaggctggcc tctgaggcag ctgtccggc
69481 cactgtctct tccagccacc gctgcctca cttctggtgg tgaaccacag ctgtgggtg
69541 acagctgatg acagccgaga gaggctggg gagataagct gttctctgtc tcttcttagga
69601 ttgggaaaact gaggcacggg tggctgaggg ctacacggg gtgccaaggc cgatctcaga
69661 agctcttact gcccagttc ccagcatgtc ttgttctccc cactgactga cacctcctcc
69721 acgaatgaga agtggcaaat ggctggcagg gtgacaggca gtatctaact gttaggaggag
69781 gcccacaggc tgatctagct gaccacgagg acaacgcctc ctctgcatca agctttgaga
69841 cctggagggc ccctcacagg tctgtggtgc gctaaggcct ttgtgtctc agtctgttagc
69901 ctctggcaact gagagaagac aggacttag gagattggc ttcaatgaaa gaagtgtatga
69961 aatacgtatgt gttgttcat tgcaagcccc aaagcagtga gaggcaagtg cctgtggct
70021 aaaactccctg aaacacttag accaaaataa acctttcctt ctggtaagac aactgccttgc
70081 ggtattttgt aatagcaaca gaaagctaac tcattcagct gtgcacagaa gggcacaggg
70141 gtgggtgtga gcatgtcat cgtgaaccaa gccaaggagt gagagccctg aaagggcctt
70201 gtaaaagagtg tctatggta agtctggatg ggagctggca ctaggaatac attctctgtt
70261 ctttaggcac ctgacggacg acgttgtgtc ccaacaacca cacattcgta ggcctgaatc
70321 taagggtctgt cagcctcccc cgccttggct gtaagttggc ggcggggcta cctgccgtac
70381 ctgctggcat ggttctcgca aagacgaagt tggaggcgct gcagccca gttctcagcc
70441 cgtgggtgca gctgtggata tcgatgcggt acagagtgaa agggcggagg ttggagatga
70501 cagtcctctc cttgttatcc actctgtct caaagaaagg gtactctgtc tcgaactcct
70561 ccgggtctgt gatattgttag gtgtcagcta ccgtgggtgtt cctgcttcgg ctggacatgg
70621 tcgtgtggc cacttgcattt acgtctctcc gcctccttc gggcctgcaa ggaggagaaa
70681 gaaggcagtc tgctaagttc ttttagtttc tttgtctttt ccatggctag ggtagaagta
70741 atagaaaaagt cctagccctt aactaaaaga aactacttag gtccttgaa taagaaccaa
70801 caaataacca ggattttcgc cttcacaacc catcctgtac tcttttgaga catcctcaga
70861 gaaacatgtg cacacatggt tctagggaaac agtgtgccag ccatttttag ccagacagt
70921 ctctgtttta ccagacagtg ctacttggtc aggccctgata actgagcatt caacacgaca
70981 aaccatcagc ctcataagac tgggtggaa aggtgaggcc taagacacac aaggtagaag
71041 agacccaaag tccaacagta gtggcttctt tgatcttctc tgaatgaag atgccttagt
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71161 gatgaatgcc cccagtcctt agtacacagc atggcttgg aggttcatca aacctggctt
71221 tgcattctcc ttggcagtga gcttgcgtgt gataggagcg gagcctctgt tactcaactga
71281 cttgttttag cttaaagaaac tacagaaaag caacaggaac agagtctggg gtccttc
71341 ttccagaaaa aacttctaacc attcataaaa actgaaaaaaa aaaataaata aaaatatgac
71401 atcagataag cagccctatg ggctggaagc aaccctcagg ttgtctgcag gtgaacagt
71461 ggcaagctgg gtattgaggc tggcttgcatttgcgtgt acaggacaaa ggatgagagg
71521 aacaggtggg actgcactgc gtctggtaag aacatgacag agtaagacaaa aagggagcct
71581 agagtacggc gtcgaggc cttggaagc catgccccaa gcttatggat gtccttc

FIGURE 6CC

71641 ccaacatctg ggagaggtaca gtagggagtt gggggaaagg gccgcatgct ccctggctc
71701 cagcagatgg atctgctacc aaaaccatag ttcttgcgc ggtactgaca tgccagttc
71761 cattgaaagt atatcaactg ccataccagg gcccattctca aaagtttagga atggggattt
71821 gttatcataa tgctgggaa agagatagga aatgagggta ctattctacc atgctcacac
71881 ccagcaaacc ataaaccgac caatcaacaa accatgaaag gaaagataaa gaaaactact
71941 ttttcagta tgggtgtgcg tgcattgcatt tggcgtgcg tgggtgtgt
72001 tgggtgtgt tgggtgtggc ggctaggcag atgttcaaaa cattattatt aaatttcctg
72061 cctcccttc aaaccagagc aacacaaacg tggccttc tgtaagaagt tgcttggtt
72121 tgatttattt caaaatgata ctggccact tcttgcctt acccaccccc aacaaactgg
72181 gctatagcac caagcagact cagtggcctc cttacttata aacactgcac tcttgcata
72241 tattcaacag ttactgtgga cacagagtca ggaccatgaa gggaggcaat ataggcatca
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72361 tttcccttact ccataaaagta tcctgatgtc actggaaaaa cttgtactgt ttaacatctg
72421 agaatgttt agtgcacagaa acattttga agcgtcttca aaaaatgaaga tggcggccaa
72481 tgaagccat ttactgatac caagtttagg aagtaactt ataaatagta gcctccactc
72541 tactataaac tcacaggcaa agtcagacaa tgcagaaaaga ctaaatctga tatatttgcc
72601 ttcagccccc agataaaacgt gcacccatgaa tgacatgaa gtaggaatag gttttaggta
72661 aactcggtt tatgatgaca gagttgcctc tgcattctag ggtgcctt tatggacact
72721 tgcgagaccc cgtatagatg tcagatccct gcctcggtag gaggtaaaaa acaacccccc
72781 aaaccctaatt ggcaggtgt ggtgacccct atctgatgc tgggtctgtt ttaggacact
72841 gaggtgagga cacttacacg aaggaatgtg accgagagaa aattcggttcc aaacccacag
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73141 agatcctgtat gtagcaaaca agctaagtgc tcaacgtctg ttcagcttcc tgcgcctt
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73321 actaaggcatc acgcaatttg ttagcaacaa tggaaagaacg acctaaaccc tggccatgc
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73441 cctggccctt ttgggacgct ccataacctgg ccactctcat ggctactctt actgagtgtt
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73561 gaatgttaggt ctgagaccca agactcaaac agacagtaag ttagtgagga tagaggtcac
73621 tgcattccagt tttaaagca cttttgtatt tgggtatggg tgggtatggg aggacctctg
73681 agaaaacagac atgacacaga gggaaacatg gttaaaagcc aaaacagcag cgcctcctgt
73741 cagctgactg caatagcagc ccagcaggct gccaaccaac aggagctgct ccgcgtgggg
73801 cagatgggag catgcacagc ctaaggcatc aaatgttagcc tttccaaagg gcacactcac
73861 ctgggcacaa agatgaaatt gtgaaggaaa ttctcaaaga ctttacggta ctcagccctc
73921 tccttctcag cctgcttctc agttcagtt ttagggcaag cgcagcatgg ccctttatca
73981 ccaccacaca cttctgtctt gggattttcc gtcaccccttcc acgtcgat ggtaccatcg

FIGURE 6DD

74041 gcgtactttc tgatgggtat tttgtctgct tggggaaagac cagagatggg aatgaaaagcc
74101 atgcaggaag tgcctgttag cattgctgtt ggaggggagg ggtgctgggt tgcaactgctg
74161 agaagcaagc cctgcaacgt gacaggtgtg accctggggc tcaggttctc tcagacaaca
74221 gacaaggcca gtggcactgc ctgcctgctg cctgccagcc cccagctcac ctttgagca
74281 gtagttgtgc cggtaggtt aaccatcctg gggctgccgc tgccacctca caatgttagta
74341 actcaagttt ccattggggca gagttggagg attccaccc acaatcagct gagaggaaga
74401 gttttagtgc gagaggacat cttagggaaat ggaaggact ggaaaagaaga acaaagaaca
74461 tttcagagaa tagaccggaa tccgaggtt aggttatacg gggctcgatg caaaccaaca
74521 ggaagctgca ggcttgactt gggcacagag atagcaacgg accaaccaga gcatgaggtg
74581 aaccagagct ttggaaagat taccactgg gaggccagcc ctctctcaga gcacttgctc
74641 ttagataatc tatgtgcaaa cacacatggc tcactgaccc gggactgaag gggctacgag
74701 ggcatacgctg gggtaaaagg ggactctaa aaaaaaccta gagggttattc agttatgaca
74761 actgtcattc tccgggtgtt attaggaaat ggcaaatgg acggcttagt acttcacctg
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75721 ggtgctcaag gctctgagaa ccactgaggg acaacacgtt ggaagaccaa gactgtatca
75781 gagaagacaa gcacttgatc cctggtcccg tgagctttt caataagtat ttccaaaaca
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75901 taagtacgtc actatcggtc ccaagcactt ttgaggtcag ggaccaaattc cagttttaa
75961 tatttagaa gaagaatagg atttcttaag aatctgctat aatgataaga aattcctgct
76021 tagttttttt tttttccctc tcagatctgc tgcaatgatt cactgggagt cattactccc
76081 aaactttaag atgagaaatg tattcagttt ctttgcctt ggaacggta atatgtttca
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76261 tttcccccact tcttaggttcc ggagctgggg aactagtacg taaacacatg aagaagatga
76321 gaagggattt gtcataatc cgatatcata gtactctaag cctgcgttccg cctgttgaga
76381 aagctgggtt ccacggaaa ggcagcaagc cactagaggc aagggttgca

FIGURE 6EE

76441 ccggtcattg tcgtctcagt ccctggaaagt ctgcactgag agagaggaga ccagccacaa
76501 gtggctacat cctgggcatt cagagaaaacc atcctactgc tctggaggac accgattcaa
76561 ttgcgttagag cagagatgtt gacatttaag atggtagccaa gtcttagaaaa tggctcagga
76621 gaacttaagg tggttggcagt gagaatgtta atacagtgtt aagcagcaac aacaagcattc
76681 tcattgctag ccctccaggcc atactgtgcc tatgtaaata aagcaagctt ataaaaattc
76741 agggAACAGG gggtggaggt tggttcccg gtgcgtggat acctgaagca ttgggtcgaa
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76861 cagccttgcac atagacagca tactgggtcc agggcttcag cccatgcagt aaaaatggcag
76921 gctcgccctc cttgttcgga ggcaggctca catccacat gttccagctg ttggagccac
76981 aggcattctg cccgtcatat tccgttaacgt ttttaaatgg tctgaaagac agtcaacaca
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77401 gcaaacaata aactaataaa acacaacttt tggacaaaac taactttcct atccccctag
77461 aactctaaaa tctaattcga taatagccat ttttattttat ttttattttt acttttttgg
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78721 aggccatgca tgcattcaagt gactggaaga caatgggtca gttcagggttgc gccttggta
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FIGURE 6FF

78841 ccacataatg gcttatgaca gtttgaggc attcagttct cttaaaattc atcccctttc
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78961 ctcctgacta gctgctgtct caggttggga cagtttaata tgacaactag agaggtcaca
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79261 acggagaaca tcactttcac ctggggcaca gaggcacatc catgagtgac agaaacccat
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81121 tggagacag cctggcttcc tggatgttgc gtagtgcgtt caagaaggct tcatttcgt
81181 ccctgagttac gtgggagagg acagacatcc agtgtctccc tggatgttgc catcagggt

FIGURE 6GG

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81361 gtctagcagg taatgctgat aaacaccagt cctgggtcca cccagaaact accaggccgg
81421 ccacggcact gtttccaagg cctaacttcc actagagggg agatatggc atggccaaag
81481 ggaagatagc tatcttaggg ggccaagggg agagcaagga ttctacttgg gtgtctgcat
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81601 gtcccaaagt cctgttctgc cctaaaggct gtgtccacct aggcaccacc tgctgagagt
81661 cctcaccac attagaacta ctgcctaggg ggtctgtttt caacatgacc ttcacatact
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FIGURE 6HH

83641 taggcctccc tttaagtga agactgcagg ggaccgagtg tagagtcttc catgttaggaa
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83761 tcagcttctc tagggctgct gtttctcagc tgcccatgga gctatcttt ctggctctt
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84121 gtctcttagag ggcatacagaa gccagttacac tgaagctgtc accagtacag tcatttataa
84181 cactacttag cccatctgtt gaatattggt tcacttcagg tccacagtttta taccatctac
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85681 atgaccagg taagcaggcc cagaaagaaa acacaggaac tacacggccag gcaaaacact
85741 tgtgttccca cggggggctt ccgagaaggc caagatcaac tgcagtgctt tcctggatag
85801 ctaaggctga aggatacctt catgggggtt ggggggtggg tggggggaaa tattcctt
85861 tccatcaaga cagaagtctt cagaatcctc ctgagccca cggaaaggatt tatgccattt
85921 tcagtagcca tacaaaaagc tcaagaaata gattcctca acactgagtt gaggcaagat
85981 tgcttaaaaaa taaaataaaa tataaaataa aataaaaact cagaagtggc ctggactat

FIGURE 6II

86041 atacatttga aggatcacag ggatagcgaa gtcatttcta atctttgcca tggccaaac
86101 atacacagaa atactcagaa agttactcga gcttatgctg gcaactcccc caccggaaatg
86161 tttctgtctg acttgggggtg aggttacacct ggttgaaggtc cacagggttc cccttccct
86221 gtaactgtga tttatccaca cattctggaa aacactgggg ggagggggag gaggctatca
86281 gtataaacga cagcacccctg aaataaaatg tcagataact ctgctaatac accccttcctc
86341 aaaatctcca gtgcgtccca aggcttacct aaatgataac ctctacatct gcatgcaaca
86401 gtgcctccta taatccttagt actgccttacc tcccccaagga gctgaacaca agacaggccc
86461 aaatgtcatt ctgtgctctc tcctttctg tccttgcgt ttctagtccc ccaaaccctt
86521 ccaggccagc tttgctcaga agcctgtgtg gccttctcca ccagagtctt cctttggta
86581 cccagagcac cttctgtcct ctccctggg gctctctgaa gcctgtgtt tgcactacct
86641 gtgttcatct gcttattaca aatcttctc tccttttata aataagttagt gaaagaagtga
86701 accagcttag ccctaataact atacaacgag agacaaaatg gagggtttgc tatgggtggc
86761 ccctcaaaggc tttggatttc atcacagttt ccagagaaag ctactactaa agagtcctaa
86821 atgtccctggc cagagatatac cttgaagcaa gaggctctca acctgtgggt ttagattcct
86881 ttgagggtcaa atatcagaca tccttcatat catgcatttta cattacaatt cataacagta
86941 gtaaaaattac agatatgacg tagcaatgaa tagattatgg ttgggggtca ccactacatg
87001 aggaactgtt taaaagggtt gcagacttgg aaggctgaga aacactgttt ttaacacaa
87061 gtctccagggc ctcacctggc ctccactccc ttctcaaatg ctaacagcag ggctggcgtc
87121 agctttccag ggaagcttcc ccaataccag aatccttaac aataacttggc tggatattat
87181 agtagccaga agctggaaac aaccttagatg tcctcaaca gaggaaatgga tacagaaaat
87241 gtggtaattt tacacaatgg agtactactc agtattttaa aacaatgact tcttggaaatt
87301 tgcaggccaa tggatggatc tagaaaatcatcctgagt gaggtaactc aagtccacaaa
87361 agaacagata tggtatggac tcactgataa gtgggtacta ggcagaaagc atggaaatacc
87421 cacaatacaa ctcatggacc acatgaagct caagaggaag accaaagagt ggatgttca
87481 tcctacttag aaggggagaac aatataatca agggaaatgg taggttgggag ggattttggg
87541 agaagaaaagg aggggggggg gaaaagaggg tgcagagtca ggtattgaag gagctagagg
87601 agatgtacag agggtcagga aattgaacag agggatggg gaaactggagg tagcaaccac
87661 aaagtcccaag atgcgaggaa agcaagagcc tcccaggacc ccatggagat gacattagct
87721 gaaataaccc accaaaggggg aggagaaccc gtcagatccca tatccagagg ttagactgcc
87781 ccccacccccc gttgaaggat gggcaaccc acccatcttcc aaagttttaa ctcagaattt
87841 tcctgtctt aaggaaatac agggacaaag agtggagcag agactgaagg aaagtccatc
87901 cagagactgt ctcacctggg gatccatctc acacgcac accaaacccca gacactattt
87961 attgctgtatg ccaagaatgt cttgtgtaca ggagctgtatg acagctccct cctgagaggc
88021 tctgcccagat cctgaccaat acagatgaaag aggctggcag ccaaataatca gactaagcac
88081 agggacccca atggagaagt tagaggaaga actgaaggag ctgaaggggc cttatctggc
88141 atcaatgggaa gggggaggccc ttgggtctgt aaaggctgtt tgcccttagtg tagaggaatg
88201 cttagggcagt gaggtgggac tgggtgggtg ggggagcacc cgcataagaag cagggttaagg
88261 tggatgggaa tagagggtt gcagagggaa aaccaggaaa aaggataaca tttgaaatgt
88321 aaacaataa aataacttatt taaaaaaaaa aaagacttgg ctgttacttc atacctaagt
88381 tttgaataat gaaaaatag gctataaaata ttcttggaaa taaaaaccag cttcaattt

FIGURE 6JJ

88441 tcagcaacat ctaagtgtat gatactttt gttttaaggcat aatgataaga taatcataacc
88501 atgtaataat cctgataaga aataatcaaa gccttcctttt gactttctat gcctatcgct
88561 tgctcagtgt ggaaaaaaagg ggtgggggag cttatcctcc agtaactaac agatctgaca
88621 gctactaattc cgccaaaggaa aacgtgcttc ccgatgtcag ggagtataagg gcacagatct
88681 actgggggaa cataatgaaa cgagatggag ttacagttca ctttaaaatt taatacaagc
88741 aacaatgaat taagggtgac cacggcctca tgcgtacggag gccccagaat gattgcgaca
88801 ctctgggcag ggtacctgac acatgcagaa ggattcgcggaa ggagaaggag gttttctga
88861 agtttctctg ctcgcaatgg gaagatggac ggggtgagca gctctgtttc tggctgtatg
88921 taccagggga agacccagac cagagttgtgt gtgagaaaaaa ctggaggttg taaagaaaacc
88981 tcatccagac ataccagcct ggggacaagc cttctccgga tcttcccgtc actgtcttc
89041 taagggccct gattgcttag ttaatacacag tataaaactt caaagcatta acacagagct
89101 acaccagagc cgtagcaaat gtctgaagggg gccagcaagg gcacacaggc cagagtctgg
89161 aaagaagctg tgcacatg cagtaagcac cagtttact ctctgctgag aaacccacgg
89221 ctgttttaaa acccagcttgc caaagcattt ctgtgcggaa ggcacaaccc ctatcaatac
89281 tccaaatcct gaaagctgtat caatacacag acgctgttaag ctaatcaatg tacaagctct
89341 gcaagctgaa atatctctgt aataaaatgtactgtccgtat ctttgcattt ctttctgtctt
89401 ctctgtttgtaaaggagatg gcttgggtgt caggtgcgtca agtgcgttgct gtacaagaga
89461 acccacgtta catgtgcctg aaatctcagc acttagaaag tggacacagg gacatctctg
89521 aggctgtca gccagtttagt ctacaaactg gtgagctcca cgttcattga gagacatact
89581 caaaagataa gatagagaaa aaagacaccc tttgtctctt tgaacctcca gagggtgtgc
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89701 acacacacac acacacacac accccagagc acagtaggct gaggcagggtt aagtgtcaga
89761 tgaatcacaa tttccctggg agttaagcac cacaggcagg ctgtgtcacttccctgcagg
89821 aagggtccct gggaaataacct tggactgcta gaactcagcg ccctagcttactt gactcgtgt
89881 gtgggttggaa tgagaaatgtt caccatggg gtcacacatt tgaacgaacg gccccaggag
89941 ttgggtgtac ttggggagggc tggtaacactt ctgggaggtt ctgccttgct ggaggaagtg
90001 caccaggagt gggctttggg gtttcaggc cttacacttcat ttccctgtctc atgtttcag
90061 tttgagatgt gagctctaactt ctgtttgtctt gcctgttat tgccatgcctt ctcccccacgt
90121 tacggatgtctt ccccaattata agctcctctt tccctaaaggc attttggtca tgggtgtctca
90181 tcacggcaac aaaaagtgtt actactacga tatgcaaccc ttgtatgactg caccttaaga
90241 atgaagacac ccatttgcca aattgttagt atcctgtgac aactccacag gacttagagc
90301 aggaagggtgg gtgaccacccat aggccggcagg agcaggccca gggtttcacc ttcattctgc
90361 gtaacaaacc caaggatatt tgaaaaagtac actaatcggg gctgggagct ggctcagccc
90421 ctaagggtaa gggcagctgc tggtaacactt ctacaacccatgg tggagttgaa cccccaggag
90481 ccacttgaca aaaggagaga ctgactccca caagttgtat tctgacacac atacacacac
90541 acacacacac acacacacac acacacacac acacacacaa acactattaa gacgcagcac
90601 gcccacgttc tggtaacactt gtttacccttc cagctgctcc tctcctaaga
90661 tgagacgaag gtttccctcagg aaggacaagg agaccaaggc atgagaatgg cggatcttca
90721 cgtagccgtt caccacctcg atgagccca tggatgttccca caactccgag gcaatgttat
90781 ctagagaaag aggagttccat gtcaccggat cttccctctgg tggatgttccca cactataactc

FIGURE 6KK

90841 agattcacac acactgggtg ghatgcgaag gggaaagcagg tcttcgtgg gggaaattgc
90901 gtgagaaggc tggcatagca ccaaccgtcc ctgtctccac tctccgcaag ccacaccggg
90961 acaaggcctc tgagggcggga aagcagactt ctaggaggct ggctgctgca gttgccaagc
91021 tgattaacag aacgtgaaat cagaaatgcc aggctgtcaa ttagccccag ctgacaatag
91081 gaggcaacat ctcttagata tgctcagtga caggcagtcc tggctccaca gtgcacatggc
91141 aggactggc aaacctgtcc cagcctggta agaatggct ttgctggacc tggagttcca
91201 tatttaaga ctcatttag ggctgcagga aaacactcca atatcacagc aatgatgtac
91261 gcaggtagtt gatctatctt tccccaccct ggatcgagac agggttcat gtatgctaga
91321 ctaagatga ggctgaactc ctgatcttc tgcttcctc ccctgatccc tattcctggc
91381 ctgcaggcag tttgttttgc ttctctctc ctctctctc ctctctctc tctctctct
91441 ctctctctaa ataatttctg catctctaag tttctatcc tgctcataat tacttctgt
91501 accagaagaat tgccaggaaa agttgtaat gtaacaggac cgagagccag tgaatttctt
91561 ttatctgtct tacccacctt tcacatagca agtaacataa actttggttc atgacaaaat
91621 tctaagacta taataaaatta ggtgaatggg atttttatta tatctgattc ttgaagggtt
91681 atttggtaa agtttctctt atggttttagt ataaagaaga ggacaaaagc cttataactaa
91741 gtctgagcc cacagagtcc cctcaactgc aaaatacata cagtgttagt tgtatgtaa
91801 ggctacaggg aattcaaccc taaaaaaaaga gtggctgcgg ctaagcctgt gtttgttcc
91861 ccaagaattt aacttataaac ccctgtgtgc aagacaagtg ctctggccgc cctgaactca
91921 ctctgttagac caggctagtc tgaatttcag agatctgcct gcctctgcct cagaagcact
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92161 tggtagaccat gctagcctca agttcagaga tctgcctgc tctgcctcag aagcactagg
92221 atgaaagggt tcttcactgt ggagaccagg ctgcctcaa attcagagat ctgcctgcct
92281 ctgcctcaga agcaacttagga tggaaagggt ctgtcaccac acccagtaag taattcttct
92341 tcatgggctg aatttcccaa tcacattgtat ctcctcatgac aggaagatataaaaacagta
92401 aggtttatga attttaaaag gcatgtctg ggtcaataa actcaaagaa attaataga
92461 tctggtatga gcaaaaactac aatttggta ttaacataag ggtcagcggtt ctgtgtggg
92521 gaacagggcc ctccattgtg gaaagggtaga gaatgggcaa taaaaactaa ggacttgggg
92581 gctcgagaga tggctcagca gttaaagagca ctgactgctc ttccaaaggt cctgagttca
92641 aatcacagca actacatggt ggctcacaac tatccataat gagatctgat gccctattct
92701 ggggtgtctg aagacagctt cagtgcactt acatataata aatcaatcaa tcaatcaatc
92761 aatcaatctt aaagaaaacaa acaaacaac agacaaatgc ccaagcctca aaaactcaact
92821 accacaaaaaa accccataaa gaaaaaaaaca aacaaacaaa aatccaaacac catacataca
92881 aaaagaaaacc ctaaaccaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaacc caccttgg
92941 ctattaccc tacagactaa gaatataatt cacttattta acaaataactt aggggcaagc
93001 aatccactat aaataaaagag gacacttgc ctctgaagta aagaaaaact ttcttcct
93061 aaagatttac cagtaaagat taaaataata gtctctgc tatgtattt tacctcatga
93121 aactactagt agctcaacat agaagttcta gtggcaggaa ctgaaggcga tctatctagg
93181 ggactttctc tggcgttca agactagaga agataagatt acaggctct qctqccacca

FIGURE 6LL

93241 tgggagatgt tgttcatgaa tacaattctg aagcaacatc ccaggagcgc tgtctacacc
93301 aagtgaagaa agggagtcg caggctcaga ccacagctt aggtgtggat ggcacatctt
93361 tctggctctg agaggtaaaa caggagatca ctcttaatc tttccttgc tcagtcct
93421 caacggaggc aagcaaccca aactctggcc ttacagaagt gtggactctg cagcagctag
93481 catgagccag ccatgggtct gaggcatcag aggtgtgtgt gtgtgtgtgt gagagagagt
93541 gtgagagggt gagtggtgtgt atgtgtgtgt gtgtgagaga gagtggtgaga gtgtgtgtgt
93601 gtgtgagaga gtgtgagaga gagagagaga gagagagaga gagagagaga gagagagaga
93661 gagagagaga gagaacagggc ctttctgctg taagatgtga cttaaagaaaa gacgaggggct
93721 gatcctctt acaggagttt attctgggtct aatggctcaa acatcgactg tctttctatc
93781 tggattttat gtttccgaga aactcacagg ggaggcgctca cacaagaggc ttacttacat
93841 cccgtgctgc ttttctaagc ctgtattctg cttgtacta aagggacaga gccaggaaga
93901 gcatcgacgc aagtaaacca agaagcggtc cagccactgg tctgggtgggg tggagttactt
93961 actgcctctc cggatgtttaa taagcagatt gcccattcagg atgggtgcattt cttggagcat
94021 ttgagcagaa gtcaccgaat cgatggttt cgttttcttc tcttcattcgc cgcagactt
94081 ggggcagggg ctttcgcagg ggatacagta catgctgtgt aagataaaga gtggaccaaa
94141 accacaaaag ttagtttattt ttcttcattt aaaaacaaca aacaaaaaaag aaaaacaaaac
94201 agaaaagtaa ggaggcttt tggttggat tacagcagca tttcatgaaa gaaccaggct
94261 gaaacatcca aacaatcaca cagtataatc tcctaccagg ggcaagccat ccaagctgca
94321 aacacacaga gggAACACAG actgcagaag agggaaagcat gtcgcttgg tttagacaga
94381 atacacttcc catgcaagaa gcatgtgggt atcataggt tgggtgggg gagccagctg
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94801 ccctcagtgc cacacacaaac ctggagccag aagcagtggc atgcttcctg cttccctgccc
94861 atcatttagg aaacggcaga gaagatgcta agcctgggc tataccttct gagacccat
94921 cctgtatata gaataaggc cgagaagctg ggtcgattt tgaatgagaa aaatgaccca
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95041 aaacccacg aaaagaaaga aaatcagggt aaagcaagag ctgcctttac taaagtcttc
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95161 ttatcttcattt atttccttattt aggagagtgg ggctgagggtt ttccacaggct cccatggaa
95221 gtggacctag ctagccaaag tgggggacat ctggcttcttataataccac atgcaacatcg
95281 cttgtgtgtgt tggaacgaga atggcccat agactcatgc atttgaaggc tcagtccttca
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95401 cttcacttcca ccatctggga tcctgcctt taaaatcaca agccaaatata gacataacttc
95461 tgtatacgca gctaaggctca tgacatttttacatcact agagaagaaaa ctaagacacgc
95521 ttcatttttctt acgcctggaga ggggtttctt tctgaactttt cttgtgc tgggtgtgtt
95581 tttctcattt aactacatgaa cgcataaaac ccagctctt ctaaaaacaa acaaacaaac

FIGURE 6MM

95641 aaaaacatac ttggaataac tgca gcttca tacacagacc cgtgcagaca gtacagagca
95701 cccgtgtact ttccacccaa cgctccaaac tgctgctaca tccaacataa cgataacaca
95761 gtgacccgtgc acgcgtgtca gttctgtgc atttctccat ctgtctacat agacctgtaa
95821 attccctact gcaatcgagt tcgaggacaa cttcaacaaa gtcctcctgt gtgtgcctg
95881 tttgttagctg ccctctgacc tgccccagac ttcaactatcc ctaactcccg gtaactgcca
95941 aggtgtcttc tactgccacc ttggaaaatg ttacagaaaag gcagtcatac agcacatggc
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96121 tgcctcaact tcctggatt acaaacaag aggctacaga caagttatcg aaataaacgt
96181 tcagggtcaa catgactatg tttattctt ccccatttt tttttatcca aatagaaaaa
96241 cctggagcca cctcccgctt tgtaaaaatg tcttaggaatc atttagcaat tgaaaacatg
96301 tctataaggg tttgttctga ttatagctt agtttctaa aacccactct tttatagaca
96361 gagcacaacaa acatgttca aaatacttc aagcaagtgc taaataggct tcaaaggcca
96421 gcagagggac agctattatt tctttagatg attttatatt aaaaatgggag agactgtgag
96481 aacgggcagg gaggcagcagc ccagtgctt aagagcacac tggagggaaag gagacccaac
96541 tcctatgaag acacagcatc ctcactgtgt gttacaggac agttgaatgc ctttcagtag
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96721 aaaaatcccc cataccccc ccccaactcc cctattcacc cactccccct ttttgcctt
96781 ggcgttcccc ttgtactggg catataaagt ttgcagtttcc aatgggcctc tttttccagt
96841 gatggccgac taggcattt tttgatacat atgcagctag agtcaagagc tccggggat
96901 tggtagtttcc ataatgttgc tccacctata ggggtgcaga ccccttaagc tccctgggt
96961 ttttctcttag ctccctccatt gggggccctg tgatccatcc aacagctgac tctgagcatc
97021 cacttctgtt tttgttaggc ccctggcata gtctcacaag agaccagctc tccctcttac
97081 cagccagctc tcccttgctg ctcccagcccc cagaagggaaag gcattgtctg gactgtgggt
97141 aagcaacttc acactgccc acaaaggctt ttggctcaag atgttagaggg gtacatacac
97201 ccctttcttca tgctaaaagt gattatttag atgtaaaggc cctctaaagg cttatctagt
97261 aacagcttag tcaacagctc aacaaggtag gtttacttag aaggcctgtc tgccttggc
97321 acatgcaaa agcaatggac ccaagagctt aaaccaaccc ccccccctt cttcttcattc
97381 ctccctccatc tcctcttccat cttcttcata aactgatcac cctaagtatt ttgttacagt
97441 aaccgagagt tgactaacag agactgcca cacatgaata aaaaatggc agacttattt
97501 tttagtagact gtattataca attctgagtc attgttagtcc ctggcttacc aaatcattt
97561 aaaaatatttgc atcttttccat ttttactgtt ataatggtgc agaaaattttt caggttaggaa
97621 ttacttttc atcttagtat tatggaaagaa aatgttaatct ttggtttgcat ccagcagtca
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97741 tactgaacat cttttataga gaggactgtt agcaaaaacta tacattttt atacttacag
97801 aattgttagc aatgctggag actggaccta ggtccttcta tggccagag attggatcta
97861 ggaccccttca caaggtgggg actggatccca gggcatctca caagtgtggg cagtattcag
97921 aacttccttag ttgtattttc agaggctcag aaatgtgtt gtgtgtacag taccggaggc
97981 agggaaatgaa ttacaatggaa accttccccc aaagtccctt gctctgttca ggggaggaaa

FIGURE 6NN

98041 caacaacctc agacctctga ctgtcctgtg tttccagagt tataaaatcc tgtcttcacg
98101 aacatcaccc atgacgagg ttgtgaagta cagttgttc agtcagaaac agctctgctt
98161 ccacagtcaa gcctcagagt ccagaagga aaaccagagg ccacaaagat ggtgaaaggc
98221 ttagagaaag gagggtctgg cagaaaacat ggcagatcg actactagtt catgcccaga
98281 gcccaggctt gcaatgagac atggagagacc tggttccagg cctcatgaat gctggtgagg
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98461 ggggagcaag gctcgggagc acctggccag caagctaatt cttacgctt agtgctagca
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98581 tcgcattaaa acaagcttag ccattaccct ctgacagacc catctgggtg aacccttggg
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98701 ctgacccctg ggtgtgtt cgatgtaaac ctgagggaca ctctgtcatg cactcatcg
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98881 acacgcctt gtatgttagt tgtctgcagg ccacgcagg tgggttgc tccgggtgt
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99001 cgcacacact tggcacact gtgaggacag agggagagag ggtgttaagg atgatgggt
99061 acacgcctc ccctgggtca tccgtgcac ccaccagcg ggcgtaccgg agactggcta
99121 gaaaagcaca cctcctctga aatctgcgtt gatcttaccg tctgtgaatt ccacttgggt
99181 aaagacacaa cccaaacccaa gtccatttc tccttttagac tcctgggtt ctagggatg
99241 agccattaaac atttaacacc catgactct tcaaaatgca gtggccacac ccattaaaag
99301 ggagcccatg gtactgggtga acagagagaa atacagacaa tatgggcctc taggactata
99361 caaggcactg tgctcctcag ctctccttct gtatgagaat tccattctaa gacccagg
99421 gatgcgtaa ccacgcacac aacactggcc tgcacacc cccttctccc tcatgcata
99481 aaagtgtatga agagaggagg cataacaagt acgggtggttt gaaggagaaa tgtcctacac
99541 aggttcatgg atgtgaacac cagggcgggtg gtgggtgtct gtttgggaag gttacagac
99601 cttagcagg gagctggagg aagtcccttgc tgggggttag agtttgggtt gggtttaca
99661 gcctggccca cttcttatt tcctgtgtt ggggtggatg cgatcactt gtgtttctcg
99721 cctgacaaga ctaaagccat tccttcccccc cttcccccgg ccaccacaag gactctgtcc
99781 cctctaggac tgcacaccaa gataaacctc tatctctggc tccatttttc tgtcaaggt
99841 ttttatcaca gcaacaggaa agttccaaat aaaacagggaa actagtcaaa acctcttaggt
99901 tactgcagca aatgttaacc ataccctta caaaagcact gcgtgactgt ggcctctc
99961 ttctcaaaact ccagaaaaaa aatccaggc tacggaggg ctactcttgc ccatgggcac
100021 agaagtaatt atggtctcta aagaggaaca agtacaatc gaagtgcacca gtgcttata
100081 aaggtcttgc gtaatgcac catctgcaac gtctcttcac aacacaaccc tcagatcaca
100141 agcaagctgc tggacgggtac aggtatggtag tacacagggt ttctgtaccc agggggccacc
100201 tgctataaagc cttgttaagt taaaggccag gtccagtaat cacagatcta aaatcacacc
100261 ctgaacaggat actctgtat gcacttctgt aaatatgtca tgatgaacac acgcctatga
100321 tccttacttg tgaacaacat ataaaaacaaa caaacaaca aacaaacaaa caaatctggc
100381 taacagtaca tgtacccaaat tggggaaagg gattgtttgg aaataactaca gaactacata

FIGURE 600

100441 aatatgtata ttttaactgt gatgtaccaa agagtcaaga ttccatgttt tattaaaaaa
100501 aaaaaaaaaact actctaaaac caaaaactaag ccaaataagc cccagtaacc acaggtaac
100561 ataaaagaaca cacaagttca tctgcaccca aaacagccgc tttgtcaacc cttcatgacg
100621 tggctttcc cgggttcttc ctgtgcacag gtgtatgact acacataacct gaatgttaaa
100681 ccttggacta cggagaaaagc actggataga cttggagttgg ataccaccat acagcaatct
100741 cgctacgtct caccgttaca gctgtgcccc agcatcaaac gcgccttca tgcccacaca
100801 ttactgttcc atgagtagcgg ccatctttgt gggcacctct gcacgcccact gggatcagtt
100861 ttcagaactg actgcacgga gtcagttatgt gctctggagc cttacaccag tctgtctaca
100921 cagctctaag tcacatccaa gaattcctgt gtcactgccc tttaaaacag ttaaatcagc
100981 agcatgaccc agtaaggaga cggagttct cgtgacactg ccaaatcgac ataatctgc
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101101 tccccctgtta ggagtttttag gtgttctgtt gggatgttc tttggcttca aggcttctta
101161 gcctccactg tggcttagagc gtggctgctc tttgtttgaa gttcggttcat cccatgggt
101221 ataaaagaaa agttttacta gagcttctg gaacacttct tttaaaatac agtgtgtgtc
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101401 tagaccagtg gttctcagcc tttgggtcggt gatccttgc aggggtgaca tattcagacac
101461 catgggtatc agatacgtac attatgattc ataatactac caaagtata attatgaagt
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101641 acttcttcag gtgaagagaa accaactttt atctatgca ctgaaccatc cacacagaag
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101761 ttcatttatt ataacttagct tcaggctgtt tttggacacc cattcttagct caggaacaaag
101821 cagaagttaa ttatctctgg tcacacaaaa aaacaaacaa acaaacaac aaaaaacata
101881 aaacaacaac aaaaacacca aaaatcaaac caaacaacaa aaaaacctgca ggagccctta
101941 atatcagaat tcagacactg tctaccacag caattaccc aaagacagta aaatggagtt
102001 cactgattta acagccttacc atgttttag ctgcacacac taccactgt tctttttca
102061 ctcaaaacaca tcaatataatg acacagttga agatgatagt ctgtatgactt aattaaacat
102121 atgcactgca cgggttacat caagggttgg ggtctaaatg agcactgaag ttatgttgc
102181 taatttttt ttttttaat ctgtcaatga cagaagtcaaa cgatctgttgc gatttacgt
102241 accccccac aatttactgg ataaacgctg cacctgtgtg ccaggcaact ggacatctg
102301 tacaattgttca cgtggcagt ccctgacctc aaggaaagga taccacacca gggaaagcagg
102361 aaagaccacg cacaggggtgt tccttagtact gtgggttctt ggaagggtct tcagagacag
102421 tgagattggc actgaaaaaaag gaaggccgat ggggaggggc atcaggacca cccgtcacag
102481 aggtcctcag atgtaaatac aggctgagat gttgctggaa aaaaaatgga ccagctcagg
102541 gaggtaccac aggcacacccg attgacggac agcagggaaat caccctgctt taggcaaggg
102601 ttaggttctc acactagaaaaa ggtcagcatg ctgtatagcg aaggcatgat aaccagagtg
102661 ggcagaaggg cagaagaaca gccagaggag aggaatctgc tactgattac actgtccatc
102721 tatggctcac acagatacat aaagttcaat gtaactcgct aaaggctccc tgggtcagct
102781 gtccccagcca tccgccaaca ccattgtctt gtgattcggtt agctcgacgt tatcagcaga

FIGURE 6PP

102841 gattatcaat gaggactaga tgccaaactt ggagcccttt acttacttac atagggaaaga
102901 aaatgataca tcacaataga tgatgaagtc aaatagctac atagtagtca aagccccatac
102961 catataaaaag cagggggaaa taaccttgc aactgtcttgc aatcagttac cccccaatgc
103021 caaatgctac atctttccag gatgagaaaag agaaaatagaa atccttgaca aaggatttgc
103081 taaattttag gacatgtttag ccctgttcca ggcctgtat gggacttct tctcaactaa
103141 gaaccataaa gttaaaaaca ctgtctttac agatagaacg gttctttaa ggcataatacc
103201 agatccatga gtcccttaac actcagtgtat gccaactgtg aacaaatgcg catctgatata
103261 tctgtgggtg gaagaggaca aaaaagggtt atgcagagag ggagagagaa gatggaggaa
103321 ggcgcacctg cttgcttaggg gactgactct agagatctgt gtgtggctac agggaggaaa
103381 ggggtgtggc tctctctcca gcacagagga ttccaggagg aagcaggaga acgcagggt
103441 gggatttagac agtccttggag ccagcttcg aagcctgtg taaattttgt ctcatctcg
103501 tgtatataaa tattattatgt gttcaggact attaaggat ttcttgaaaa gccccgggca
103561 gtgcgtctcg ccagcagatg gatggctgtc ctccatgagt gccaaaactt aaaatttagt
103621 gcagtaacca aatttccaat tacagcacca tggggggaaa ggaggggacc tccccccgca
103681 ctccagagga ggggcacaca ggcatggta aagggcagtc caaccttaaa aagaggaaac
103741 ggaagctgtg aacttagggca cgaaggaaag caaaattgtt ttgcccattga gaccgttct
103801 ttccttgcca ttaatcagcg aagacaataa aaacaaaaacc ttatttggaaac agtcagaaaa
103861 gctacaacat gtcctgtgtc agccatcaga aggacaggtc cagggtcagc gtgcatacgg
103921 aggccacacg ttttaaaact ccttttcatt tctttaagag aggacaaaaca agcctcgac
103981 atcagcttgg tccttgatt tagtaagttc ttcttaattt cccttagcc cgtgattgt
104041 tctgtcagtg aatccttca tgatcgaaag ctcccgagaag cgaccaagct aaagctcccg
104101 agtccaaacgt gggagaagaaga agtaacgaga ccgcagaaga gaaggatgga agcattagac
104161 aaggcagtgg aaaacactgg tggaaacaca gaggccatgt agggaaagggg gaggtAAC
104221 gtgctctggg tgactgtcag agccatggg gagtaaggat ccgaacatcg tattcaactg
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104341 gcaagaatct tcatattatt tgaacaccca caccttagat ttccatgggc ttccccagtt
104401 cggaaactaag ccaacaagac ctgtcttcag gctctagtgg cctacctcca aaggaacctt
104461 tctcatatca ttaacccaaac caagcactct atggaggagt gtgtggataa gccttgaaat
104521 agactcgtgg ctaatcttgg gagcatctg cccagtactt aaacatgcag aagcctccct
104581 cgtcctgccc ctccctttct tttttttcc tcctccctt cctgtttctc ctgctctcg
104641 tcctccctt gtcctgtctc tcctccctt tcctgtctt cctccctt ctcctccct
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104761 ccaaggcaag aggacatgtt atactcaggg ccgtcacatg tatttggat taaagattt
104821 tacattctac ttatgtgtg tgttatgtt ccactttac gtctggtacc cagaggtag
104881 aagaggatgt cagattctg ggaaactgga gttacagatg attgtgaaac attatgttg
104941 cgctggaaac ctaacctggg tccctgtaa gagcaacacg tggataataac cactgagcca
105001 cctccccggg ttcctgtataa tgacttgc agactttca gacacaacca tggtaccagg
105061 agcccaaggc cagagtatca ccaaggctgg ccatgcctt cttttgtcc tcaggttaac
105121 cagcaaggag gatgctcatg atgctccat gcctgtctac ctttcaggaa aggcaaaagat
105181 aggcaggaa actcaggact cctcatagtt tggatgaaag ttccagttt caaagaatga

FIGURE 6QQ

105241 gtatctctgt tggcaggaac tgtgcctgac tgaggaggag caggggacca atggcaagaa
105301 caaggagaaa aagcccgact ggggtctgt gctgtgtcca ccttacaagc atcacaatgc
105361 tttcagttta ttagtcttca atgtacccct ccactatctc tcttcacata cctttccca
105421 ctccaatctc ctcataaaa ggtactacta tgacttact gtacctctga aacaaaatt
105481 acatgttgc aatttgactat tgtcattatg gtgtgggtt aagactaact aaatctaacc
105541 aaaccaaatac taatctatgt tggaggttaag gccttggga gagaattagg attgtatgt
105601 gtcactaggg tgggacatca ttgtgttagt agtgcctta tcttatata agagagagac
105661 agagacagag acagacagag caagcaggca agctcagcaa gtcatgcctt ggccatgcca
105721 taatgcaata ggaatgcctt ccttagagac tgacactaca tccttggact tctctgtctc
105781 cagaactatg aaaaagtatt ttcttataa actaaccagc atcaggtaag ataagtatac
105841 ctcataagga atagatggtg agtggctt cttggactca gtcagtcact gggttacatc
105901 ctagcaaaaat ctgtggctca actcacaaag tcaaactaaa tagtgcctt cccccccgccc
105961 cccccccccc agggggaggg atcgagggtg ggagagtcag agacagagta agaatgagga
106021 gaaaggagaa tgcttctcc aaaaggaaga caaggacca aaacataactt atggctttg
106081 caacgtcaaa aggagaactc tactgcctca ctactgagca agcatccaga gttaaaaca
106141 gtgtctaaggc atgtctgcctt ggaagactgt agccactgca tagtctgtca cacagcaaag
106201 gcaacttcac gtggcaaaca gtgtcttaaa agcccaggcc gaaaaatcac attggtaaaa
106261 gtattctctg ctaatgcca aaaacccaaac caaaccacac cataccaaac caatccgaac
106321 caaacgaaag caatctcctt ttgtggcggg gcggtaggca gatccagagg agacgtcatt
106381 ttaagccaga atccaaagct atttcagttt ctgtttgaac agaaaggctg ttacagatgg
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106561 cctaactttt ccagcagctg atgctgttaag tcattttctc cttattgact ttcaaaggat
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106801 gcatggtcca gtcacagacg gccagagtca caggcagtc cccatctta ttccaaatac
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106981 cagcattcacttccctcaggc tccatgaagg tctggcacat gcggggcaag gctgctctc
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107341 atgcctgtatg acactttagg tgggttactt atatgcatta tttaatcctc ctgataatca
107401 caaaggtag gcatccctca ctttagagatg gacaaactgg agacatcgga gagattaaag
107461 aactcatgca agaggatcg gctgctgtgc cgttgggttgg tgcacactc agagtccca
107521 acagatgaca gcagcccttc cacacatctt cccatcggtt tggacggc ttctgagcct
107581 ctctgctgtc tgaaaggcat gctgcagggg agttgcttgc atgcttagttt tcttttaag

FIGURE 6RR

107641 catgcaacca taaggaagaa ataaacccaa agccctacta ccctttcta ctctctttag
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107761 gtgcatacaa gtgatactag agaaataata tttatcaact cagtgtcctc tattgagtt
107821 tagccaatgg aagtctcatg gacattttc tgccacaaat taaaagact agattttt
107881 ttttttcat gagacagggt ttctctgtat agccttggtt gtttggAAC tcgatccaca
107941 gaccaggctg gccttgaact tagggatcca cctgcctcca ttttcaggt gttatgatta
108001 aagatgtgga ccaccctgcc tggccgccc gctggatctt gttgtatct ctaagagcca
108061 ctgcaaagtt gcacactaac agagaagctt ctcttctgaa agatgcacag tcaacatggc
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108181 acaggctcct cagagtccgc tcggacccaa taagtgcact gaatgcagta agcatgctta
108241 gttttcaaa tgccctgaga caatactctg agagggtatc atagcatctt tccaggaacc
108301 ttgcttaggtc acaactcatg cctactcaa gagctgtcct ttcccaagct tggaaaccca
108361 ctctaaccgc acagaggcat tctctttagc aagccatatac gttctgtaaat atggaaactt
108421 tgcgtggaa gaaaatctga gtcagggcca gttgagatgg ctcagtgggt agataaaaca
108481 gctatccttc tgatggcctg ttgcacccccc accccctca ccctggaaagt cacatggagg
108541 agggacagaa tcaattccca ccaagtgtt tctgactgac acatacatgc tgggtgttag
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108661 tttgggagag cacagtttga aggctcgagaaaataaccg agtagcatcg cacagtccag
108721 gacagaaggt aagccacaga gttcagctgc tgaagcatct gggAACattt cattaatgag
108781 caaaagaaac aatcgccctac tgacaatgcc tggggatca ctgaggcctc gggAACcaag
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109201 atcgacgtta gaatattttc atcatccca agaaaaaagc ccatacatag caaagcttcc
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109921 gcagctcaac ctttagagtcc ttttaccagc actatattgt tctcacagac tggcttaatt
109981 cccgtgtact tttaaatagt cgaaaacgcg atttcaacc tattttaaaa cccacataca

FIGURE 6SS

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110161 gcttcatggc tgcttcaagg atggagaatc tctgtctcac aaaagtca aactttgtcc
110221 tcaagagttc tgaaaaaaagg aaaagaagca agaagtccct gcagagggcc gactcccctg
110281 cagccgttct cagcaggctt gagcacataa agatcaactt tgactgcctg tcacagatgc
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110401 attttaaattc tggaaacttt tgatattcc ttataagttt atgaaactca cacggcgct
110461 ccatgactaa ctgaagcggc attgagagag tagtcttat ttataacttc tctgctgtg
110521 cgtgcgtcca gccctatttc catttctgg tactgtacgc agagttatgt gaagccgtgt
110581 gggctctgaa atgctactta cttccataaca aggcaggct gtgttccata ggggcaaata
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110761 ttttattttt ttatttaaa gacagagttt ctttgtaaac cctggctgtc ctgggacttc
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110881 ttttatacc acctccaccc ggctagactg cacctctcta aacgggtgtt tgagcctgtt
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111001 aatacacaca ttcccaggc agtgccttaa atctgtgtgc ccgctcatgt cacctttcc
111061 acttgatttt agtggaaattt tgtcaccaaa gggtgcaagg cttaacagg tcatgcataa
111121 gcctctctcc atacacaaat gtttatgtga agataactga aatgactgac cagagtcacc
111181 catgggacaa ctagtactca gagcagagca catgaggcct aggattaagt tctgttacga
111241 aaagcaagac ggttcatgga gagagtaata aatgtgaaag atacacgcgc acatagacta
111301 cccatggaat tcggatggct acatgtacat ggacacgaat cccctattca cagctgctcc
111361 catcaactgt aagaacagct gctctaaggc tgccttagtca tagtttggaa gaaaaaaatc
111421 aaaaccaact cctggaatct tctctaaaac aatgctctgg tgactgttagt tgtctcgctt
111481 catgctgctc caagaggagg aactcccat gaaaaggagg aaaaggcagt ccacagtcca
111541 cgcttccttt ttgggaaaga tcagaagggg taacaggcac ctacacaccc aatcctgtga
111601 ctaattatga aggtggttt ttttactgc atagccttt ctttccagt ttatatcacc
111661 tcttaatgtc tccagattca ttcccttctc gaatcttaaa cttcattaca gccatctctt
111721 atgtccatgt atgaaataaa ttaccactaa aaacatccct gagaacatg tctaaggcaa
111781 ctcagtcact gtatgcacac agtgaagttt acaggaacta ggaggactgt gacatcatta
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111961 gctggcagaag tgaccttcag cctgctcctc tgaggccct gcctctctgc tcaccacttc
112021 cttcatcctg ctgctctgt cctgttaactt ggctggaaac atgacttagg tattccagg
112081 accatcctac tacataacttt tacttacca gtagcaatca taaaaaaaaaaaaaa aaaaaaaagct
112141 cagctagacc tttaaattat ctaggagggt agaaaagcat tgcgttgcatt aattgtacat
112201 cctgaaaaat actatcacta gcataaatac atgaaatatt cataatcagc ctatctact
112261 gttaaaaagt acctagaaaa gagaccatgc aactgttgcg ataccatttc tagaatctct
112321 ctcttttct gagtgtgcatt gtgcgcacac acagacttct gttggcttca attgtacttt
112381 gcttgaattt tggtagcaga gggggggaa aaaggtacca acttggctaa aacgcacatcgc

FIGURE 6TT

FIGURE 6UU

114841 aacacacgaa cccgacacacct tccttaaaga aataactgggg attttgaaat caatttaag
114901 acctcttaatt tccaaccctg aaacgtttta ctacgtgcatt tctctaactg cactcgtctc
114961 tcaccttgta aacaagcaag atcggtggaa tgagtgtccc ctaattacgg ttcccttggg
115021 gcccgtctat cccgattggc agcacctgaa ctttctcctg cactgtatct tcctaaattg
115081 acattctcag cccacactgg cacgctggcc tggtgccatt caacagcaca aatgacacat
115141 cccaaggctg atacttccgt ctcctgccc tctccacact gcgtgtccgt aatcctgccc
115201 tccaccact ccccaaccct ttgaaatttc taaacccag cagaggaagc cctgtaggggc
115261 tcttaataag ctcagtcatg ctcgaaatat ccgttttacc cacagggtat ttaggcagc
115321 aattccgacc agagcacatc tcggcacgag atcatggcct ccaaagccca gcgttcagaa
115381 ctcctaagag caccgctctc atgcagtcctt actggaacac ttgggaactt caaacagtt
115441 ggggggtgggaaa aaaaacatc ctctctgata cttccacattt ccacctacac tggggtag
115501 gaaactcctt cctgttgctg tggccacggg gggtacatata cgcaactctc ctggctctag
115561 tgggggtgaa accccacagga actctgcccac cacctacaca gaaagtccca tgccagagac
115621 aacgacgcat aaacattttt tgtaaagtta gccacatgt aagaaaatat catcttgatc
115681 aggtattttt ctagttctgt ctcacgttca agtctcaagg cccacgtggg ggggagcagc
115741 gaagttacact ggttgcataat cttctgcccc actggaaagat gcttggatt tctgaagaaa
115801 ccacctgtaa atcagtttat cccttaggta atcgagaaag agagtccatg aatttgtt
115861 cattgtatgt agtcctatag gtgcttcccc ttggacaagg ataggtacca agaacaccat
115921 cctgggctgg ggagatggct cagtaggtaa agtgcctgtt gttccacaaa catagggcct
115981 gcggtttgtt tcctagcagc caaataaagc acaggacttgc gcaacaggac cctggatct
116041 ccctggctag agcgcctctgt tgaaatagca acctctgggt tcagggagat gttgtagtaa
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116161 actgtggcct tcacctgtgc acatgcacac acaggcagca agtgcacccc atataactaca
116221 cacacaggca gaaagtgcac cccatataact acacatacag gcagaaagcg caccctat
116281 actacacaca taggcagcaa gtgcacccca tatactacac acacaggcag caagcgcacc
116341 ccatatacta cacacacagg cagcaagcac accccatata ctacacacat aggcagcaag
116401 cgcaccacca tatacatata cacagttttt gaaaaaaaaaaa aaaaagctca aatcaattta
116461 taaaacatta agtttaagt tggcccttaa ctcactaata ttatttgaga ggatcatcag
116521 tgaaattaga aacagaaaaga atttaattgg aacctgttga tgggtttcag gttattcaat
116581 aacaaaaaca atctggccagc cccgttaacat ggtcatttc tttgaatggg attgcttcat
116641 tctgtggatc cacattccct gaggtgggccc ctgaatgctt aggtctcatct tctggaaaga
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116761 aaacaaaaca aaacaaaaaaa cccaaaccta ccagccggaa agccatggtg gcagcagtt
116821 aagcaacaac ttaagaacag acgaggccca tctgcatgcc gctgtggcca cattgaaaa
116881 ggcccaagga atgtctgtct gtctgtctt ctcgcctaca gtttcaaaa ttggttcgg
116941 ggagagttagt gttcatgctc tgggttagaa acatattacc gaggcgtgt ctggttacag
117001 aagaacacgg gcttgggaga agttcacagt ccagccctgt cagctgtgt aagtcaaagg
117061 gactctgcct cctcagagtt ccaccggagg cagatgacag acaccacccc gcactgttag
117121 cccatgaaca cacgcagcaa ggcacacagc gacagcaagt gtctcctgca catcgccagt
117181 gctctgtcaa tatcagctgc tggctccacg taagtctctg gactggattt tcaccttggc

FIGURE 6VV

117241 tttgccaact atgtAACAGT gcaactaact ggtgcacagg tatagaAGAG atgaggaggc
117301 tccttaggacc ttccGCCAcg gcacgCTTgg aaaAGGAACg tgacgaAGAG cttctAGTta
117361 gttccCttca tggctGAAG agctgcAGat ctggTTcat ggaaggatgg ttagatGAAT
117421 aagaAAAGAAA aAGAGAACTA aagaATgttt tcaatTTAA aaATTATgtg aaATTgtgtg
117481 tggTgcgtg tggTgtgtg tggTgtatg catgtgtcA caggCCaagg tggTACACATg
117541 aaggCCAGAG gtgtgtgtGA gaggatgtgt gtgtgtgtgt gtgtgtgtgt gtgcacaggc
117601 catggtatac cagtGAAGG cagagggtAA gtgtggagt cacttctct agcTTTacc
117661 tgctaAGCCT cttactggcc cgtaAGGGcA ggaatctgAA gtacttaAAC ctcacttctg
117721 atcaaATAAA actttataa acttAAAG accgtttct taatttcAGt actcttctca
117781 gaccCttctg tcctAGAGTA acctctgtgt gatccacaat agacctggc tcaccAGAA
117841 ctcccTGAAG gttcaatgtgt gatggTggTT tggTTTgtg cagttctagg aatgtacAGA
117901 gacacaggcT gaccACTgAG gtcATgtggg gattaACACT tcatcaggTA caggAGctgt
117961 agctcaggGG cagtgtgctt gcctAGcatg ctTgcAGccc tggttccAAc ccccAGGAAC
118021 gctaaaACAG agaaaACACg taaataACAT gtctGCCAGg tagcaAGCTA ttccaAGACA
118081 aggaAGGAGA cttctgtgtt tcgaaaaATC tggTTTgAAA cacaAGAGA gactGGGACT
118141 gtggctcAGT tagtgtAGTg cttatctcA tccgagaAGT cctgggttca attcccAGCA
118201 ccgtttAAAT ggggcatgtgt aatAGAGGCC tctaATCCCA gtcCCTGGAG atagtggcAG
118261 ggggactCCA agttcaAAgt tactcctggc tataTAGTgA agaATGCAAG gcAGACTAGA
118321 ctgggctaca tgAGACTCTG ttttAAAG ggAGGAAGAA tccttccAAat acataACTTT
118381 actcaACTTT gttcAGCCT acatATAAA cgctgggtt agcatAGATA cagaAGctCT
118441 ttccTGTGTG gtgtGAATC attactcaca accaaACCAA gtgAGGAAGC agggCCCTT
118501 aatattAAATT acgggattCA gacAGAGGTa gttAGAGAAC tgTATAATGG taACACCCAA
118561 aactgggttG agtACCCCCAA atactcaAAAA gaaACAGACA atgctaACCT gggAGATTAG
118621 aaatgattCT gcaACTAGTT ccctgCTgCA tggcAGCTG gaggccccCA caAGTggAG
118681 gcttggTggg agactgAGAA agcATTGCT attcgTTTC taggtCCAAG gcatttCTC
118741 caggatCCAT gggCTggACT agatGGAGCA agtgcAGGCT taAGAAGCAC aggtACTgTC
118801 cacacACTCC tgatcatCAA gatGGGGAGG gtagccAGt tgTTggCTgg tcactAGAAc
118861 atccAGTTCT cttccATTt gtaccACTAC tatctAGAC tcaCTGATCT tcAGTcACAG
118921 gaaaAGGTCA tctatAGCCA gtggCCAGAG atagcTTTT atgcttgCTG cacgACACAG
118981 tcaggGCAGT attccAGGAA tgCACAGACA gcctgCTCAG cttctCTCAC ttcccCTCTC
119041 atagCCAGA tcgAGGAAGA tggattcACC catcCTGTCA acaaAGACTG ccagaATCTC
119101 ctgtAGTTGc aggtatacaa ttgtgAGTT ctatTTAGT tatggAAAGG ctgtggCATG
119161 ccaACAGATA atgtgtggCT acatggAGGT aggcatGGa agggcAAat acacACACAC
119221 acatATGcAC acacACAAAC ggaACACATA catAGACACg cacACACACA taaACACAAA
119281 catgcACAAA ggctCACACA cacACATAcA cactCACACA cataAAACACA aACACACAG
119341 tgctCACATA tacACACACA tgcatgtaca cacACTCATg cataCACAAA cacACATAAA
119401 cacACACATA tataCCCTAC ttctgtACAT gtgtAGTCTT gactcAGGAC cttgggACCT
119461 gctgCTCATT cagcatATGC cgcttCTGT tctccACAGA catcCTGTCA atgtcccAGT
119521 gacctGCCTG cccGCCTGCCT tccCTGTCTT tgaggTgtg acaACTCCTG ccACCCAAc
119581 attttatgtc acagCTTCCT cttcAGCTGA cttgAAAGCT ttatTTgtt caaggTctac

FIGURE 6WW

119641 cgagcaacca agaaaagaaga gctagtgttt cacgggtaca gggtgagtg ttctgggat
119701 aggtcagtca tcgttccct ttagggaga cttggatcg tttaatgaa ctactcacag
119761 gaactggcca gaatcagagc cttgaattt tatgcactgg tccagggagg tcctgagaga
119821 gtggatgcag agtgcactgc ctttttctg ctttgctt gaatcccaga ggagccat
119881 tccaggaagg aagtggggca gggagggcagc agggtataac gaacaaacag aaaaacaaaa
119941 caacaacaac aacaacaaca accaccctca aacctggct ggctcagcgg gtaagagcac
120001 tgactgctt tctgaaagcc ccaagttcaa atcccagcaa ccacatggtg gcttacaacc
120061 acccataatg agatccgatg cccttcttgc gtgttctga agtcagctac agtgtactca
120121 gtataataat aaataagtct ctggccaga gcaagcagag ttctaaaat tcaattccca
120181 acaaccacat gaaggttcac aaccatcagt aaatccatcc atccatccat ccattccatcc
120241 atccatccat ccatccatcc atccatccat ttccaaaaaa aaaaaaaaaaag ccaaacccaa
120301 aggcatggcc acagaaacaa tgggtgccta ttgtatattag taacaaggta ctttttcca
120361 tttgggtctgt gtgcggcttc atggtagttt accctgtgt gcctgtttt atttcacag
120421 ggaccggcagg atggcaggaa gacctgcagc ctttcacct tcagaaccag agccaagaac
120481 acagagaaaaa tggcatgaat ggtcagagtc acacagcctg caggaggca agctgaatt
120541 ctaagtggct gggcttggat gtctcaaagt ttgtgaccaaa tacactgtgg tggacactgg
120601 ccggttccag agtcactgga aatattctca tagcaagcag gaagatctca gggacacag
120661 acgttagttct aaatgggcat gtcttgcttag aaggcacagc tgatgtgcct tttccagtaa
120721 gcattacaag aagccattt ccatgggtga aaaatgcaaa ggattattct gagccatccc
120781 gatgataaaag aggacaaacaa tttgccttta aaaaaaaaaat ggaagctggg cacagtagca
120841 ctcttcgtt gtctcagaac ttaagatggc tgaggaagag gaggacttgg gaagaggagt
120901 tcaaaggctg gcagggggaaa acacatcaag accttgcattt agatccacaa cgtaagcaaa
120961 ccagaagggtg gtggcaaaacc tggcggcgcac gctttaggaca tctaaataact caattatttc
121021 tacttcaaacc agtgcattt gtaaaaaactg gtagagcaca gaagcagaag aacattaaac
121081 acaggattta ataatggata tggcacaaca catataact gttgaagagc ttgtcgctg
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121201 caggcggccaa gggagagcac agaagtgcac aaggccttcc acacaaagac cagggaaagga
121261 gatgtgcaca tagataatgta gtaaggcaca gacttatgtc ataaagatgc gtatcaggaa
121321 gccaagagca ctggccagccca agaccatggc gtggaaaggc atgttaaaag caggtgctcc
121381 cggcagggtc catgtatgca tgagaatctg ctggagtgtat ggtgggggtg gcccccttag
121441 atccatgcatttcaaggaa aactatcaat tatcatctt atttatttat ttatgcatt
121501 tgagtacact gtcactcttc agacacacta gaagggggca tcagattccc actacaaatg
121561 gctgtgagcc accatgtggt tgctggat tgaactcagg acctctggaa gagcagtcag
121621 tgcttttaac cactgagcca tctctccagc ctaattatca tctttactga taactaaaat
121681 gccttaaaag tttaacttag taatactctg tttaaaaggat atataactaa acacagccaa
121741 tctgtttaaa acaacacagt ttccctgagtt gactagaaga tgcttagttt tcattctgtt
121801 tctctggta caagaagatt tcaaactatc tacaatccct catttaaatt taaaaccaa
121861 ccaaccaacc aaccaaccaa cttccattgt gagaggtgcc atgccactgg tacctgcctc
121921 ctgctcctcc tattacaagg aaggatggct taatggcctt gctggctgg gcttcctgac
121981 tgccttaacag tggaaaggc tgacaggca gtggagggaa aaaaccccca aacctctgtc

FIGURE 6xx

122041 gtttgttaaa acaaacgagc atttcacat tcactcatac tccctgaccc catagatcct
122101 gtgaattcta aaaaggacca tgcttgatga gaatgtttt taaacattaa cgcctacaag
122161 gtggagagcc agaagaaggg agccaagagt ggatggcgcac cctttcctc tcacatgttag
122221 caatttctgg tttcactcct atgcttctga gcaccccaac aggaaggctt cacagtcct
122281 gaaggtctga gctagaccag ggtacacatg aatatgctga ttatgtggc ctcatgcaag
122341 gagaccccta aaagatgact tccccaccta agtccgaacc gccatgactc tgagataatt
122401 tacccaaagt tacatttctg tttcccaaag tattaacaag agtgtttggc tcttttaaaa
122461 agaagcttag tcttcaggg cttttttt ttccttttc tttttcatt ttcaacaaat
122521 tgcttctatc gtctgagatc tccattacgg aactgtttgtt atttagtttt agtgaaggaa
122581 gaaaaaaaaaaa aaaaaaaaaaaa aacagagcgg ctggaaagat tcaagtgtgc tggagactta
122641 acattaggat cgggcacacc ccagcttca gggtaaattt aaggagggtt cttgtgtcca
122701 gtgtgagagg tggggatggg gatagaggaa gcttctcgg aagacttgac cactccccct
122761 ctttgtgaa gcctggaccc ctgtcacagc gaggatccaga gtacagcact caccatgag
122821 cctcaattcc atgtgagcct attcttact ccacgtagt ctgcctctt tgcaaggcaca
122881 ctctgcaact tttcattttt aactgtgtgg tggcttaacg agagtcagca gctctctgag
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123061 ctacccaaac ctcagatcat cattaagaca tgctaatgt tagcgagaca ggttggaaagg
123121 atcttttct atataaaata ctgctgactg gggcgtggaa cccctgttctt atgggtgct
123181 gtggccatgc aaaaagaggg tttccaaaaa atttaggatt aagagggcat ggtgggagag
123241 gaacaacaaa ctttggaaagc cttctcaatg tactgttagaa taaaagccca accaaggcaa
123301 ggaagggtgcc ttccaaaccta gaaatccagc caccctctgc aacgagccca ggcctgttgg
123361 agaccacgtg aggtggtagt gggtagtgc ggaaccta ac ataccactt tagtaccgc
123421 cagctggcac ccaatcagga gcggcacagc attctctaag cccaggttgg cacctgcaat
123481 catcttaagc atacaatggc attgatttcc acttaggggt tagaaataac actcagaaat
123541 tttacccatc tctgctgtt tgctgccaaa tttcaaaatac tctccaagaa acgcaaacac
123601 aacagaacac ggaggatgtg acacacaaat tctgcacaat ctcactgcca atacctcgat
123661 gttataactca gtgttattaaa tggaatcaga atcctgagtc ccactgtcaa acttcctcct
123721 cgtcttagtcg gtatgtgtga ctgacagctg atgtcactga atgcttgatg tctgaaatgc
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123901 accgtcctta cagattctg ggagggagct caagagtaa taagtgtgt agccttcata
123961 gctctaccaa acacatgcat aaaacctgat taaacacaga ggaagaacat aaatattctc
124021 agtcttctaa ggggcagatg aagtctgggt aagaaggact aaagaaaaag catagagtaa
124081 aattcgctcc cgctttttaa taactctta agataaggag agttgtttaa tttttcaaa
124141 ataggcagag agagagagag cgagctagag agagaaagta tttatgtgtg tttatgtgtg
124201 tatgtatgt gatgtatgt tttatgtgt tttatgtgt gatgtgttta tatgtgtgt
124261 tttatgtgt tttatgtgt gatgtgttta tatgtgtgt gatgtgttta tttatgtgtg
124321 tcaatccttc cccttcagaa tttttcctt ggaacaaacc aatacatctg gtgacgctga
124381 ctttttagtgc cccttcctcca ctcaccctgt tttctacagc aaaagtatct acaaaaaagga

FIGURE 6YY

124441 agccgtgcct caggaagtct tcaccaaagc ttgaagagca tggagagaag aagtaaggaa
124501 ccatcagatg ccttgtgtg aggttaagtcc tccctcccaa tcaacccaca atgaatattc
124561 tctgatgtca gcccctctt ctgagcatcc tgcgtctgag accttggaaag taagacttct
124621 gtgtctggaa ccaaaaactac tggggctatt ttggcagctg agccctctgc ctcctctgca
124681 gggaaaaaaca gtaggaacat ttcaaaaac attcatattt gagatattt ctggctctgc
124741 gtattttct acttcatagc acgtgttaatt gtcctccctg ataaaagtgg accttagcact
124801 gctatTTaa aagtttgg ttcataactt taaaaggata cacaaggatcc tagcaggaga
124861 acgtcaatta ccaagtacaa aaacaaaaca aaacaaaaat aggaatcac cattggcca
124921 atgccacaggc aatgggttt gaatgaggag gggaaagaaat aatgaacagt gtgttagag
124981 agtcccggaga tctgtctcaa agtacttctt aatttagagat aaaaataaaag atgttaagt
125041 acgagaggac cttgcagaga cagcattaaac caagtgtcac aattacctaa gcatggggca
125101 tcaggtgccc tggcaggctg acgtactgac tcttcacagc agggaaagagc acaggaggct
125161 gtgtgtgggg ctgcaaggaa tgacccccc tgaagtacct ggatcgagct actgaagtgt
125221 gggaaaaatgt tcccggaaatc ggagaaatca aggaggacag gaatcagagc tgggtgggca
125281 ccgcctctgg atcaggaacc acaaattggca caagagaggt caaaggggcac tggaaagaag
125341 gggcagatgg tggcagtaca gtgcagggtc tacccatc gttcggacag cttcatcgaa
125401 gttttgttaag atgctaatta gaagatgtca gacacccccc acccccacgt gtcaaaact
125461 gaagcagaaa tatttcataat aaaacaaatgt gtttttttt taagttccta aggtaaataa
125521 aagcaactta gtgacatatg gaacacaatg tccccgacag tttgacataa aggcaacact
125581 cttcccttcgg gaggagagaa atctctactt tgcgttagga cacatcaagg atatgcttct
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125701 gttctcacaa ttccccatct atctcatgtt accctccagt gcaacggaaag tggagggtac
125761 actgagtgtt catgaagaga aagccgttaa cgagatgtc aacgagaata taaccatctg
125821 tcgcacttgc cccgcattgtc ccatgcctt ttccttagct gcaagcacgc aagtggtaca
125881 cagatacaca cccaggcaaa acatccatac aaactaaaca cacacacaca caccctttt
125941 gggccctttg gagtccttgc ttatgggagc agacattttt ctgtcttctg tcacagatag
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126121 actatgtggt ggtagtgagg gcagtaaaaa gaccttgc agctttgact agaacaacct
126181 gagatttttc attctgggag tagccttaaa tgtaactata ttcaactggca aagaagaaca
126241 aactaaggcc ccaggtgaat gtaagaaggc taccatttt acttcgggtga tgctgagtgt
126301 taaggcgtgt atagcacaac agaggaggatc tccaccgaa agggatgcac tgtcttttg
126361 gagtcgaggt gccccctcca ggtaatgaga cagaaaggag tggatacagc tggccaggt
126421 tcttggctgg ctccgagagc tatgctaattt cctctgaatc aatggatatga cacaagttt
126481 ttctctgtt agctgggtc ttacttcattt accagtgtc atctctaact cccgagctca
126541 agaaaatccctt ctgcaggatt ggagagatgg ctcagcgat aagagcactg actgctctcc
126601 cacaggtcct gagttgaaat ggctcacaatc ccatccctaa tgagatccga tgccctttc
126661 tggggtgtct gaagacagct acatgtactt acatataata aataaataaca tctttgggtt
126721 ggagcgaacg gggctgggaa gagagacgaa aaagtgtctg aagatagcta tagtgtactt
126781 atatagaaat aaataaaatta aaaaaaaaaga aacccttctg cacagcccttc tgaatagctg

FIGURE 6ZZ

126841 gggtttcagg cttgagcccc ctttagagac aggacagcaga gacacaaagg cctgccccac
126901 atgtgttagga ttagatagcc tgggtatggc tgaagggAAC aggtactcag gttggcccaag
126961 gccaggagcc agactctagt atattatgca aggttgctc ctaaattata atgcacttca
127021 tttgcagaga gtccaaacact agactcatgg tgtctggtag cccagagggt aacaggctgt
127081 gttcttcaca gggAACatct gaggacagag acggaccaag agggcttgc acggggctg
127141 gtggtaagga ctaggagcgc ttacggcgg agtggcttgc gaagccttt caggtggta
127201 tctgagagaa ggcacaggaa gtcatgaaat taggacctga ggacttgcgg aggataggcg
127261 cagtagtgag aactgcattc ttgtgaaat gggtttggacc tctgctggag gctacaatgc
127321 agctaaatgt gtctttatct taatgactcc agaaaacccca tgctgtgaaa gaagcaggta
127381 ggttagaggaa ggtcaggaga gcaaaccac ctcacgtgaa gggtaactca cagacttgc
127441 gttcacttc cagaacccaa ccctcaaaag aacataactc taggggtgttag ctgggaacca
127501 ggaagcagcc agctctgagc tgctgcttc ttgctcttc acacagtgg aacaagcaat
127561 gctcatcttct tttcaaaagca ctccaaagca ataaaacacct gcagaggagc tgatggagac
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128281 tcctttcta gtgcacacat taaaactga ggcttagttt aaaccctgtt ttaccagggg
128341 caggggtgtc tgcacacaa agagacac agagtttagt tttagttcta gacttctatt
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128581 aatatttctt ctaggactct ttatatttctt tatggctcc cctagtttat tttagaaagaca
128641 ggcttctgtc ctcaggggac tggacttctc aagagcagaa cactgctgtaa gaaacagtg
128701 tttccaaaga gtcacaggaa ggaggaatgc caccactgag aggagatggc ttgcttccct
128761 ccctcaagaa aagagtggc aaggctccat ccacggcgtg ttccaacacc ttccacata
128821 gctggacccca gatgtcatag gggacttgca gaaaggaaat ttcaacatca gctagccttgc
128881 gcagatgtc ccaagtcgtt caaaaataaa actcggcga tgacggtaaa gatggatga
128941 cggcttaaga tggagcaaga ggcttcccc gtggcggcc tcagcttagt gctatgccc
129001 cttggcgctt tggtcaggaa caaaccgggg cccagatgag aaacgcgcctc gcgttgcacca
129061 tccagaaaagg cagagtgtgt gcttctgaag gcagtgttct ccagccttcc taccttccat
129121 taaaatgttg agtctgtcct tggatgtggatt gatgttattt ctaaagcaca caattcattt
129181 caagagggaa gaggcaggat taagctggaa atagttttt ttctatttgc aaaaaattaa

FIGURE 6AAA

129241 gtgttaagtgg aaacgttttc atgaaaatgt ttttatatct caacgttcc tgcgagcact
129301 ctgatcccaa tatacacag gactgagctg gatgaggag aatgaaggca aatgaattt
129361 aaataaaatt gaaactgacc ggctaggctt tattctccaa atctcatgaa atagcaaagc
129421 tgagggggac agagccacaa ataaacccaa agaaaaaaaaa aaccaaacaa aaaaaaaaaa
129481 aaaaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca
129541 tgtttaaaa tctagttat ttcata gac gat gat gat gat gat gat gat gat gat
129601 agccattgg cagaaccatg gagttgtcc tagttgctt ctctaaact cttccctggg
129661 cctgttaacc ccttggtagt cagtcacgca cagcaggta ctctcagta ccagtttta
129721 ggggcaactc acagccttag tggatgatgag cggcaggagg ctctaggctg gacggcacat
129781 ttttaaaaata cacat ttttta agt gat
129841 gaaaatgata tatacagact ttaactacta attacttag acaaagaaca aacagaaaaac
129901 aaaaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca
129961 aaaaaaacc aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca aaaaaca
130021 ctgctcagg gccacaggag gcccacaggag gcccacaggag gcccacaggag gcccacaggag
130081 gtaaaaagt gtaaaaagt gtaaaaagt gtaaaaagt gtaaaaagt gtaaaaagt gtaaaaagt
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130681 cctctttgat gtcgcacccc cttattataa gtcacatgtc tgtaacccaa cagatgggg
130741 gatgtttggg aatgactga atgaaacaaa agaagaatgg tattctgtta aacaacagcc
130801 aacatccctc tagggcctgg acacacgtct ttatagagcc tggatacaag tctttatatt
130861 ggatagaac ctctttactt tcaa atgca tctcagagca acccagaaga ctgattcagg
130921 tagtatacca cagctcagtc tcttccatgc tcaacaatgg ctccttccaa atggcattag
130981 cgttgtctac atatctgtac agtcagagct aatgtctatc tggatgcat tttttatatt
131041 agagtttcc accttccata tactattca ctttccatc acctggat tggatgcat
131101 ataaagagga gggaaacca aactggcga gcttggcga aactgactt ccagatcaca tagagttata
131161 ggtatataaa tgaaaaagct ctggtaaaga ttacagacta tgctgattct attagctggc
131221 tggatggat ctggatggat ctcttcaag gatggatggat ttatgttgc atccacacagc
131281 tcagtgatc gtaaggctcc taagttc tggatggat tggatggat ccagccagta gaccccttcc
131341 agggtgaggg aactggcag agctcagcac aacccagtc acctaactgt ggctgtcaga
131401 atcattggat cttggccatc atacatccac tctgtggcc tttttatatttgc attcacaagc
131461 ttcatcaagg tggggcctgt gtctgcaaaa agaccagtt gagaagacca ggaggtgtat
131521 atcaagttacc actcgatc tggatggat tggatggat tggatggat cagaacttca aaccaataac
131581 cccagaagta aagacaaaaaa ctccctctgc ctttggatgg tttttatatttgc attcacaagc

FIGURE 6BBBB

131641 ccaattccca caggtaggg tttcagaag ctttcaaaaa aaaatcactg atgaaacact
131701 agctcttag cttagctat tataaaaaag gctgattcc gatttcaa agggttacca
131761 aataggaagt ataaaaacccg tatgatcctt acagggaaatg gtcaaagagc agtgatcaag
131821 tccctgattt acataattct cagcattct tttggcagac ctctacagcc actaacattt
131881 ccatctacgg atgataaaaa gataactctt ccccttcctt ggggcctgt caggtataaa
131941 cttgaagccg ggcacagttt atcctcacaa ctcccccaagg aagaggtatt accatgttg
132001 ctccagatattt agaaagaagg gtcaggcctt aattccaggc atcagaattc tactgagagg
132061 gaagagagac agacagacag ctttcactt ggccttaggt gcagagaaaa ctactactt
132121 ctgtggaaag aaaagtcaatg caaccacagg aatcacagaa ggatccatca caagaggacg
132181 ccactgtccc ttaaggcagag acaggactga gaagaacaaa ggtactactg ggacagaata
132241 tggagaggtc agcttgagga agtgccttagt caaatggcat caaggaggcc atttcccaa
132301 ctggagagag acctcagatc ctcaccacag gagccaggtt gcactgtggt acgcacacat
132361 accatgtgtg tactgatgtg gtggagaca caggcagagg tggcagggtg aaatcaggtc
132421 aagaagaact gagagccagg ccggggccac tgctctgccc tgcttatgaa agccagggg
132481 ttaagtcaag acttcactcg tgattcaaaa agttatctga agacatggcg ggaagtacag
132541 ctaggtctca ccacccctcc ccctccccc cagctctgca tgctcaactg aggacgtgcc
132601 acttggcactg ctggcactt cctacaggaa aacataactt ggctattcg acgtgacttc
132661 ctggcactcg gaagctgtt gcatggaaaa attaacaggc tgacttggcc agggaggaac
132721 gtttaacaca aatcaccagg aaaagatgag ccctgagcaa gcgggaggtt tgagggaaagg
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133141 cgacacagcc acctccactc aaatcctgac gacagctcg tatataacgg tagcgtgtta
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133261 tggggcttgg gatcaaacaa atgagtaatg aggaaaaaaag accaaccatc cactgagatc
133321 ctaaccaggc tttcataact taagacttgg gtcctccaca aactcacaca ggtagccata
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133441 ctgcagcaac cttcccttct ccctcagcat caaccctaag atcctccagg gctctgtac
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133561 ggggttacaa ttccataac cttaaatcct gtaaagctgt cccacaaggc cttcagctt
133621 ctcgccagaa cttccaaacc ttgcctttac acttaacaaa gcttcctact aaatatctac
133681 accaaattt cgtacattt ttttcttcc tgcttgcgaa aggggtgggt gttgtgggt
133741 aactagtcaa gatcgatata cctctgcaat accagctct agaaaagagc gttttgaat
133801 gggatgccac gtgctgttt ttgcattt gcttgcgtt cctgcttggaa gcccagatcaa
133861 cagaaacccctt gggcactggg aactgttcccg tgccacgcaaa attccactcc gttatcttcca
133921 ggcaaccctg tcgcaaataa ttcatgttcca ctaccccctt accacacaga atacaactac
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FIGURE 6CCC

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134161 atccagctt actcagacca gtaataataa taacaacaac aaaaacccag ccagtccttc
134221 tagagctacg cctgtttagg ctgcgcggg ctcttaatgg ccagccagcc tggttcctg
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134401 aaaaaaaaaa aaaaggctga aaaggggtcc tgaggcaagg tgaatggagg acaggatcct
134461 agagaacagc actgcctgc aggattttt taaacagcag cctgtatgg ccacggttag
134521 agaaaaaaa acagacatgg agggaaagcg gtttacaact gcagcaaggg cgggaggcgg
134581 agggaggat tccccggctc tgcgcctggc ccttcact ccgggtgggg cccgggggtt
134641 ggctgagctt cagctccccca ccccaatccg tgcttttttggggggccccc catctgttt
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134761 ttgcgggatg ccagcttgc tgacaagtcc tgacgcaat cgctgggttgg gccccttagga
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136321 cttctactaa agtgcggcgtt gcaaacttgc caaatattt taggatttcc ccctagcatc
136381 ctgagtatgc ctacccctga aaatcttcc ttacacacgt gcaattaatg tgtttctct

FIGURE 6DDD

136441 gctgggtcaa caactctgtt ttctctactt ggcaaatttc cactctgcct aaaaactactt
136501 cctcttttgg catacctttc acaacccccc accaactaca ctgtgtacca agagcagaga
136561 ggtcttttc cgttcttact tctctggcca gaatttagcta caaaactaga actagcatgg
136621 tttgttggta aaggaaagagc ggagaggcaa aatttcagaa gtggtatcac ctgtacatct
136681 gcataaccaa cccattgcca tctgttaggg tgaaggcagcg ccatgctccg tttgtggctg
136741 ttaggtctc cccctgttt ctgtctgaag gcctctgtct ctgaggtgga ttcttactcc
136801 cccctccatc tcaatcagag atctcctcct ggctcttatg ctatcaactc tgcacatccc
136861 cgattcctt ccaccatgac actgaactgt catctccccc tctatctgac cagtcactga
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136981 gttccacagc tggggctcag tctctgctta cggccctcatg tgacatctgt catcaaccct
137041 ccatcttct aagcctttaa tggtgaaaaa gagtaaacct gtagataaaag agtggtacca
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137521 cagaacactc aattggctt cagtaagtgg gcttattttt ttctttgtt gcttaatgt
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FIGURE 6EEE

138841 acacacacac acacacacac acacaccatc ttccagcccc ctctgccaag tggggctgtt
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138961 gctggagga gctctgaata ctcataaaaa ggacttctg atgtgttcta ctacaacatt
139021 tctggttctt ttgtttgtt gttgttgtt acaccttat tatgaattca cttagagtct
139081 aacaaggatg gacccatgat ccaacatcag ttaagtaaag agcgtatttgc ctccaatgat
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139201 tcatattctg tcccttcaca tactggcacc ttgctagcta ttaatcatt aattacttag
139261 gcaccatggg atgcttaat tattctggtaa ttgcgttggg ctgttttagc actattacta
139321 ttatcaccat tattattgtt gctattatttgc acgactgttag agtcagtttgc tataattaaa
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141121 aagtttccctgttgc tttccctgtctt cttccctgtctt cttccaaaaaa
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FIGURE 6FFF

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141361 tggtctcatt ccagacacctt taaccttatga cctcttggc tgaggtcata gtcggcatag
141421 ggaagtgcct ggcttagtaac aacaacacag tcacacatat ctgtcctcaa ggagctcctc
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141601 actgaatccc taagtaccga atgctctctt gttccacaca gaaacctctg agaagcccag
141661 tttacagaat cagagactgg gccattcctc gaagcatgc taaaagaactg gcaggagtc
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142021 gatctttttt tttatgcattt ccttatgcaa actggcctaa gctaaaaaaaaat gttataaagc
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142141 ttctgttggc tgataaacaga gactcccttgg aaaaatttgc atttctttt gagaagcaaa
142201 aggtggagta gaaatagtgt gaggcagcata tgatgtcttgc tgacaatgca gagaaggcag
142261 ttgggagctg ccactaatgt cgagtttca ttaggctcat atctccaact tttgggttttgc
142321 tgaggctgca actcaattgt gtagaaaaaa aaattttgttag tccatttaggg tgcttttaat
142381 attcaactata tctactatga aataggagct tagatgtatga tgatgacaac aacagtaata
142441 gcagcagcta ctttggaaaca ctcacaggca ttgtgagttg gagccctgag cactaaccac
142501 tgtaatttgc tatcaggacc actgggtatg gcattcggaa aacggacata tgcaatcaat
142561 gcttgtgaca tgggagaaca aaaccttgc aaccaactgc aaacagatgg ctcatggaca
142621 acaaaaacctt agagaaaaat gcaggaatat cagcgggca gtggggagga aaagagaaca
142681 cttccagac tggctatgcata gaagggcctc aaaggccccc atgacagatg tgttcctgt
142741 tcggggtcaa caaagaataa agcccatagc acaatttta gaaaaagttt gaaatgcctgt
142801 tttgtaaata aaacacacccg actttaaattt ctactactta attttataaa ttccgcttaa
142861 atatgtgtct aaatacacatt tttttccctt gttttgagac atggctcttc tacgtagccc
142921 tggctatcct agaacttagt atgttagacca ggctgacccc tgacgcgtgg ggaccctttt
142981 gcttcttcat ctggagtgct gggattaaag acatacatca accagctggg cttaaatgt
143041 tagatttttta acttctttat atttattctt accctcagtg ttattgaaca ttgactgtgc
143101 agacttcaga gtttaccaag tttgagggc tggccaaatc cttctggact tactgagaaa
143161 ggaacagacc caggacacccg actggagcta cacgggtggc gccatggcgc caggccgaga
143221 cacgtggatc cttcggcttt gcttctgtgt ctcagctacc tcagaggttt gctgtggaat
143281 cactagtatt ttaaacaatg caaacgcaat tacagttgaa gcacattctc taggagaagg
143341 aaaaggagat tggcatgttag aagcttcatt aaactttgg cctttcaaa gctaaacagag
143401 tcttaagaaa agccataaaaa agttcccggtt gattgattt aaaacaggct tttttttttt
143461 tttttttttt ttgcaatttag cagatctaaa tctacgaaag ggagaaacac gtacggcact
143521 ttttagttaac ttctgtctt ctctgtgtat ttcaaattctgt aacaattaag actctctata
143581 gacacacgta cagatacaca aatacttagc aggacgtaaa cttctatttt ggcttcatga

FIGURE 6GGG

143641 aaatggtagt tatgtttcca cacacacaat gaattctggc agtttattta caagcagaca
143701 tccccatctgc accagggata ataccctcaa ctatgtgaca tgctacatcc ctcctgaaca
143761 cagttagggct aggaaagcac tgagaggata taaacatgtt cagggcttac aatattcctt
143821 cctaatgctt ctttccccaa cttactgtaa cgatttactg gaaagattgg actaaattac
143881 cgtctccct ttatcgtccc aatttggttt catttggat cctctccctt ctcttggat
143941 ctcccctgct tttccttttgc ttagtaagtt aaattgcctc tcctcccaaca tgcataaaaag
144001 cattaattta taaaacacat agctgtatgt catabtctcat gtaattctat tttacatttt
144061 accactagct agacttatct aacatgaaca aatagatatt atttactgta gccagaatga
144121 gaatttatcta atgccactta catagccaga aattgatttt tgattatgt ttaagcgaaa
144181 agcaaacaaa cccatctgct ctgaaaacaa acaaacaag aggagcagag cactgagtcc
144241 tcggttcgca ggcattcctg caggcctagt gcctcagcgg ctgcagaatg gggcccttca
144301 cccccagggga aagcggacca ctgacaagaa caggactcca ggcccgact ggagtttctt
144361 ctccagcaag tggtagttaa aagattttt acttattttt gggggggggg agacggacg
144421 ggactggggc ccacaaacaa caacaaatct ctaaacccctc tcaggatcag cagagaattt
144481 catcttgggc gcccactgta agtcaaggaa gttgttaatg gtcatgtttt ccttcttccc
144541 tcttgttcac taggtcaggtaaaaagacaaa gaaaaaggct gggcatggtg gtgcacgc
144601 ttagtcctag cacttagaag gcagaggcag aggttcttgg gtagtttgag gccagcctgg
144661 tctacagagt tagttttagg agagctagcc ttcacggctca tctgcccaca cacacacaca
144721 cacacacaca cacacacaca cacacacaca aactgacaaa atgtaaatca agaaagaaac
144781 aaaaacaaag aaaaacagcc ctgtgccatt tattttata atctctgcgg tttcctcagt
144841 atgaagaaca gagtgcaggat tatagttctt gtccactcca ttatattga atatataaaat
144901 tattttctaa gatacttata tacataacca aatttggttt taacaaattt aatgaaaaca
144961 ttcagcatga aactaaatag cagtaagact ctcagatgtt gtcttaggtt aaaaacaaga
145021 ggagcactcc aaccttttct ttgacaaggat ctcttgatc ccaggctaac ccgtatgttag
145081 ccgaagatga cttttaacag ctgaccctgt cccttccacc gcttctgttg tactggatcc
145141 cagggcctcc acgcacccca gagaagcact ctaacaactc actgcccagct aagctacacgc
145201 ccggcctcct ttggagcact ttcaacagcc aaaaactgaca caatacatac gcatcaacaa
145261 gcaagctgaa caccaccac cggtgtgctg agagaagaga ctcaaactca caactttcaa
145321 agtcccatac caaggctgtat gatgaaacaa caacttgaag tcttattggc gacgctccgg
145381 atactaccag ttgctaaagg aacagagtgg gactgcact gcattctgaa acattttcta
145441 caaatactca tcctgcacga agaagtaagg tgcaagtgcc tttatgactc tattttccact
145501 cttagacgctc aggctcaagg cagagcgtt agatcctgtc gcacttccat aaaaacaagc
145561 ctgatttatg ctgaaagact ttaatgacaa agttgtctg atgtgcgtgc gtgcgtgtgt
145621 gcacgcgcac acacacagac acacagagag agagagagag agagagagag agagagagag
145681 agagacagag agggagagag agagagagag agagagagag agagagagag agagagagag
145741 aggacctaga gaacaaggcc ctttgtctt ctctggaa gcacagttag catttccat
145801 gcccctgattt agccttaac tgatggttt ggttggct tcaacagaaa taattgcatt
145861 actgacccaa aaaggaaagg ccaaacaagt cttaaataat gattgttggc gtaccaactg
145921 caccaacccctt ttcttaattac aactctccat tttattatttgc tcaggcaaaag tgagtacctt
145981 aacttggaaag gctaaagctga gggggaaaag ccttttgc tctactttac aggtttgttt

FIGURE 6HHH

146041 ttataaaacac tccctcagtc cccccaaga aacaggaggc aggcacaatg accctactga
146101 ggagtacagc tttacctcc atggacaat agattgc ttctgttagcc cctgggagta
146161 aaaccagctt taatatggat gccc ttccct tatcaaagac agcaggtaa tacggggagg
146221 gctgccaaagc ttgggttgtg cggacttggc aggtatgagg cctacctcg ttctacacca
146281 cgtcactcaa ggaacagagc agaagaaaaca cgttctgaa cttccagag aggccatcct
146341 tgttcatgta ttctagtc a gatctact tctctctaca gagatggatg aaacaaaagc
146401 aaaacaacac agagaaaaac cccttctaag ggagctggag ggaggagata atctagagag
146461 aggtgccaa aagtggctt tttccaagtg aaaaaatgca ctttgctgg ggaagactgc
146521 aaggtagaag cccctgttca gaactttca aggagcat gaaagacaaa aaatgccacg
146581 caatggggga cggaaatcctc tagatgtcga gaaaaagcag cggccatgccc cagggagcag
146641 gactagagag aggcaagcca actcctgctc atggcaaggc ggcttgcctc tccagcgcac
146701 tctgcagat ttccgcacg ttgttctat agtctgaaga cactcgcgtc gcagtgtatt
146761 gttggatgct ggcagaatct ctatgtcaaga ctatgcactc cacttcctt ctgacatcag
146821 caagggggaa cacaccaggc gccaggagac aagggtgtagg tgccaggagac aaacaccgtg
146881 tgggttccag agctgaactt gctgtggag actgtccctg cagaaaaagt aaaaaacaaa
146941 ccaacacaaa aatccaggag gtgcagaggt agaggcagag gcaggcgggt ccctgtgaat
147001 ttgaggccag tctgctttac acagtggatt ccaggacagc aggggctgtt tagagagacc
147061 ctgcctcaaa aaaaacacaca aacaaacaaa aacaaaagaa ggggtgtaaag aagagaggga
147121 gaaggtgggg cggggggccag ggggtggta tggggagggaa aacttaccct ggtggagaca
147181 gtgaaactgt tgggttgcac tgcctcttt aggttagggtc taactgtact cctgactaat
147241 cttcaacttgc ctgttattaaat caagttgggt tccaaactact ctggaaacta caggtgcaac
147301 ccaccacacc atcgaagtct tggcgacag ctctaggggg catagggaaat ggctttcccc
147361 gtgccctgta gaaatggaaac tgaaagctca tcatggcggt aagactgttt ttagactcac
147421 actctcacac tgcaaatgac ctaatgacac agcaggccct ccgttaccat cctcactccc
147481 acgctccac tccatcctaa tgtagctca cttaatcact ctaccacagg ctttaggtgac
147541 atctgaagga atagcatact ataaaaacct gacttggca ccacagcatg caagctctaa
147601 ggcaggtaga acatactggg tttttgttgc tttttttttt tttttttttt tttttttttt
147661 ttccctgat ttccctcaaa agatcttac atcatgagtt atgataactcg ttcattacat
147721 ctccttagaa tgctccagt caagaagaga aggctcaatg acccaccctt actgcaaaag
147781 caaaaattatc ttagaagaag aagaaaagga atggaccatg taattaaaat tacgaggggc
147841 agtgacttac agaggtaaaa agttaatcac aaggactatc tcaaaagccta gtaaaaatg
147901 gggtttccag aatcagaccc gtcaaaaggta accacgagat gcaataatgt gtttggaaag
147961 tctgggtgac gggcagcagc aggaacaggt cagggaaaggg gggagtaaat tttttgcaaa
148021 atgaaatgca gaatgaaaga ccatttgagc acacaggcat ctactctaaa acctgcaaat
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148201 gggtatccag caccgggggg ttggtagcaa ggagtcctt taatgaataa atgaagctgg
148261 agctttccag atgtttcatt aatggggcac ccagaacca tgctgctgca cccgtgcccc
148321 ctacaactac taccggcatt tgggagcact tagctctaaa gtaggtttaga gctggagtgt
148381 aactgtatct atgtgaagac tgagttgtat gggaaagc tcagcataca gcaaggccct

FIGURE 6III

148441 acgtgctggc tatkactgca atccaggcaa aggcttcgt gaaggcta ac gaactataac
148501 ttggctgata atgccgttcg ttcatggctt cgtgagcgct ccagtcccg tggccttggc
148561 gagagttgga gttgagtgga gactgcaggc acggaaactt ttccagcaag aaagagtccc
148621 tcttctccca cggtcactaa ggaggatact tttattttc caggatcagc tgagtctgtca
148681 caagaggaga gtggaggggc aggaggagac cgcctcaggc ggcgacaagg gagccagca
148741 cctccctgaa agttgcagcc agctgcttct tggctggaaa cttatthaag ttgtcccttg
148801 tcccacttct gaggctctac agggatgctc tggcactgg gatccatgaa caaacaggga
148861 tgagcggagc gaagggaaaca ctctgctcag atgagtcgc ctctcaacgc ccttgcct
148921 cactgtgctg gtggggagtg ggggtggggg aatctgatgg gcaaaagcaa ggggcccggaga
148981 tttgactgtc acgcagaagg tttgcccagc ttttagaaaa gtgaagaatt caagaaagca
149041 aacacaagca tctctcctgc ttctactccc tagttatccc aatcccaatg aatctggaa
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149821 tcaggaatag gacagatcca atttagaact gggggggggg gggggggggg cactctgtct
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150181 atcaagagta acgcccacca tcacagatgt actggtgccca ccctggcac agtgcacac
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150481 aaactgggtt aattttaaa aagctgtca agaatattgt gccaatgtt gttgttgggt
150541 tgtgataact ggattatgt tatgtaaatgtt gttaaatgt gggagagctgg gtgacatttc
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150661 gctgaggagg aagcagagag cctggggagc tggcttactc ttttagttgc tttgttactt
150721 ttttgcgtttt aagtaggggtc attataactac agagctggct tttttttttt tttttttttt
150781 ttttgcgtttt ccatgtcttc ataaactttt gggaaatcgga tttttttttt tttttttttt

FIGURE 6JJJ

FIGURE 6KKK

153241 cattgtcaag tcatccacat gaaattatga atgcattatc atctgaagag tcattccat
153301 aaaacggcag atgacaaaata gtcagctctc agtatccatg gggatgggt tcaagatccc
153361 tccctcagac atgaaaatct gagatgagca agtttcttat tataatgtgt aaatctgcat
153421 atgatthaag tttttcttcc tgcatactag aaatcagagc tagatgggtt gccatacttg
153481 agagcgcaca aacgctgcgt aaacagtcaa ccgtacggca ctgccttagag cagtgggtt
153541 caacccctt aacgctgcgtt ctcaaattgt gggaaatggaa ggtgtgtggc accatgctca
153601 gctagaatcc cattgttaagt atggcactgg ctggacctac atctgcagaa ctccaggta
153661 ctgaagggtt gtactgcatt ctgcagctt cctaggctt aggaagctac caacctgcaa
153721 actcccttctg aggtgaaacc acaacaggcc atccacccaa ctcacccact ggaacccaaat
153781 gaaccagtca agttaacaga acactgagcc accttttggc ctccatgaca gcccgtacag
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154681 cctggcaca cagaacttgtt gcatcaagtt aaagactaaa gggccagagt ggggttgaca
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154801 ctatttcag cagagagaag agagaatgtt attgagatga aaatgtggat ggcagattcc
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155101 agaattaact ccatggaaa ctttagtgaa ctgaggacaa cgtgtcaact acaaagacca
155161 gaaagcagggtt ctagtttagt ggctgagtga ggaagggtgc ttgctctgac ttcaatcttc
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155281 aaccaataa ataaacataa cattgaaaga taccagaatg catgctgtct ttgaaaaccc
155341 tattcattgt cttaaagtata agatgacagg gccatttccc aaaaccatac atcttggtt
155401 gacacaggtt gggcaaaacc aggtcaagtt cagtgacag caggtaccaa atggacttat
155461 ggctataccct ggttaaggccaa gccatgaaaga tggatgtt gtcctccctc gttctcggg
155521 aacctgaaat ctggagaagg gggagggggg aggaggagga ggaggagaag gggaaagaggt
155581 agtgggtgtt actgggtggac agggagaac atcttaggagg aaagaagctt cagaagttac

FIGURE 6LLL

155641 tgacggcagg agagggtcct tccaggccat ggaaacactg ggcctcaaag gacaggctgc
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155761 gcacttattt ttataattaa atactttat gatagagaaa aaagcaaaca gagaaaaaaa
155821 agcaaaagca tcaggttca cccaaacaca gcaatggtca gtttgggttc atctgagatg
155881 accaacaat gccaatattt gagttacagt tttcaaggc cataattgct acattaaaa
155941 catcaagagt cacagactgt ccccaaacag tcagagccct catgacctgc ctgtccagg
156001 atctgagagc tacagtgtc tgcttctatt tagagcatta tgaatgctaa atagaaatgt
156061 tcaaaatatt ttacaaaatg aaaagttagac atcagtcac tgaggtcta aggctgttct
156121 ccaacttaa aatacattag ttctttttt tcctttcccc ttttctttt ctggagacaa
156181 ggtctcagggt agcccagggt ggcctagtat ttatgtgtg actgagaatg accttgagct
156241 cccgatttctc ctgcctccat ggaccaacga gtgcagttt ttccccttaa gagtacata
156301 gttgaaccag gaaggatggc tcatgcctgc aatcccagca ctc当地
156361 gggctgttctt gagttcgaag ccagcaggga ctataaagtg agctccaaga taggctgcgt
156421 tgcagaatca caacacgtct caaacaaca acgttagcaga catatctaacc
156481 gacaacgaca catttgtatg atacctgaat aataagaagg ggtgcataa ttataattat
156541 tattattta cagttgtaaa catggaaag tgctgagcag ttcaatgagc ttagggctac
156601 agtcaactcaa ctgcataatgcata gtcagatga ggataatgca gaaacgcctg
156661 ggaaggagca aacacttctg ccactccgtg aaatgtcaact caaataacaa aacaacccca
156721 ccgaccgacc tctcaggata aggaagtgtc gcggagtgaaa aacacactct
156781 gtgaggggcc ctgggattct gtacccatgc ttagggctac
156841 aagccatgtc tggtaaaaat gactcattttt
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156961 ttagggactt gtctaaatgaa gtaaaaat
157021 tgcgtctgag agctaaaaag tagtcgttct
157081 ataaaagggtt caaaggaaatt taagtgaact
157141 acaaaaataca ctaatagca aatatttaggc
157201 ctaaaaccgc cagatcatat agacacacac
157261 tctaaccacac acacacacaaa aacacattag
157321 aagatttcct ttaaacagtg ggtattattc
157381 tttcttgcataa atatgtttgg ggtacagaga
157441 tatgggcacg tgagaggaga ggtgaagaag
157501 cctattattc tccacgatt tcaaaagcca
157561 tcagattcac aaatgaaatc tctttgtctc
157621 ctagctgacc gttacagggg caggccagt
157681 tgcataatcct agtacatttc tggctacagg
157741 aaacgtgcat cccaaaggtag agctacaaaag
157801 cttaaaacgc agtcaaagggtt aactgtcatg
157861 atacactggg ctggtcttcc agtggccatt
157921 catcctgtat cctcaccgtt gcttccaaaca
157981 gatttcagca ggtggcatgg gggatccaga aagcatttctt ctgcacccat
taactctgaa

FIGURE 6 **6** **6** **6**

158041 ctgcatgcag aaccgtgg aagaaatgct tctctgatcg ctccatgcac ttttagtggc
158101 catgttaat cagctaagta agaatgactc ttccatctgt gttaagtggc cttttaaagc
158161 taattcacac tatctccaaa taccctgaat taccaggact gagggtggcc tagattcctg
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158281 ctggttcaact gagaacccaa catcatctaa acagaacaaa aacatcagaa ctgaaggaat
158341 cgccaaagta tatacacgtg actcccgctt gaatgcattc agatccgacc agtgactcca
158401 agcttctgc atgtttccca tgagctattt gccctgaatc aactcctcacc cacaactctc
158461 gaaatgacat ggacctctgc tggtgcactt attattcctt ctctgatggg gagtggat
158521 gactgaaaat ttgcgccaa ccagcctcta aacagaaatg cagtttattc tgagtactca
158581 aattcaaattc ttagtaacac agcaattaca ttttaaaaata aattctctcc atgttcttc
158641 ttcttaagaag agggttttagt gggatatgaa gaggcttaatc ctggcaacc atatggccag
158701 gccaattata aaccccatat atgttcacac atcaagcagg gcaaaactgct ctggaaacaa
158761 cccttaatata ttattgcct gcccagggtgc ctgagcattt ctgagatata cctgtcacag
158821 gaaaatatacg cacttccttc catcttacc ccatagttgc cagacaattt ggcagagcta
158881 aagtggtaa tggtgcagtc aacacttccc taaaacattt atacatgcca ctgataaaaca
158941 atagaatattt aaaggagata caaatgtact ccccaaaaaaa taaatcttc tcccacggag
159001 gcctaaaaac taaaaatct tcatttcaccc ggcacagaag aaggaataca aattccaagg
159061 ggagcttaga ttatggcct aaatatgtct tcctctagaa tatttaatac acttacgctt
159121 tagtcattcc atacatttt aaaaactctt agcacgataa attacatgtt ctgcatttt
159181 catgggttgc cacataaaata tcattggct ttcaagaaac caattacggg gcggttaatc
159241 attttacat tgctttcaaa aatctttaat ttaacttgca acacggacag ggcacacaca
159301 ggctcccgagg aagaacgcag ctcacacatt gtatcatcc ctcttgcgtcc agtttagcaa
159361 caacccctga gtaagccaca acaatatttt catgttctaa aatatttggg ttatatttat
159421 atatttcaca caggtagttt gtcagcaag tatttcctaa cctcctgttag tatttagtt
159481 tcaagacttg gggtaggatt gggaccacat tgatttcagg gtgtgtactg tacttctgtc
159541 accatcagct agttaagga caatgactgt cctggcagac accgaaaca cagagcctct
159601 atgggttct tgagaaatca agaccatcat ctcatggaa agggcgtggg aaacaagggt
159661 cagggccatt gaggccacac aatcaacaac aggatttgc ccagcctcag agacacagag
159721 tggactggca tactatatac atttggatc ccctcgctt tgacaagttt gtgaaatgaa
159781 agaacaacaaac aatacagttt aagatcaagt ttttagtagag agaatgcaga caaccacaac
159841 cgagttactt gggagaaaaaaa aaaaaaaccctt agctcttagc tggggagtga cagtcaaggg
159901 gggaaatcac gcgaagggat ttcttcagg tgcaagaagg catgagagtg ggagacaagg
159961 attgagcatc ttggcagaag gatcagaaac ccagtccaaag gtctacactt ccgtggagca
160021 gccgcagaca agcttaggtt tccgggtggg ataacctaca gttaagacat cacattacag
160081 acactaggaa gccattgttca attacagccca acaggtgaga atcataactt agcggggcgg
160141 acacaacaac caagccgttca tctagagcag gaagcggggg atagacagaa agacaggtt
160201 taatggagga gaccaagcag agggctgtcat taaggcagag gcttctgtgc tgaccaagtg
160261 actaacacaa agggcccttg cagaagacca gagatgtcag gggggagaat tccttctgag
160321 ggggcctagt tacactagcc acttgatatt caccggaaag gaggcagaga agcttaggagg
160381 gtgggcacaa aggcagtggc tctttctac ctgaggagag ctggcagctc tatcaatacg

FIGURE 6NNN

FIGURE 6000

162841 tataatcgct tggggaggag actgggttgc ctggagctgg aatacagacc cacacgcata
162901 tgagcccgta taaaatgcaca catgaccgtt ccctaccgct cttcacgag tcatgtcttg
162961 gctctgttag ccgagttatct ataactaaag ctctctacag gtgtcaaatc aagcaatctt
163021 ggtcctctca gatgtcagct aatggcttag agcccccccc ccctaacaatc tctatattgca
163081 ttgctaacca aggctatcca ctttagtata atcatcagtg caagagaagc caaactgcac
163141 acgaagacct ggagagcact tcagagcaca catccgaccc cttcctcatc cgagtaccta
163201 gcaaggccagt ttcccttcct ctcctgtctc cagaagaagt tccaaactcca cttcgaggca
163261 aagcagcagc tgcaagtact agcagtgact atgccttgg gactgcgtat cactcatcca
163321 attcacagac tacttagcat cgacttgtat acactttgcc caagaataaa tatttatatt
163381 cccgaaacac agtcgatcga gagcagctga tacagggtg gagatgacag aggagcaca
163441 cacaacaag taagacctcc aggagtgtga gggacaggc tagagacaaa gtaaacagag
163501 gccacaagat cctaggcgct aggtggggc tactggtaacg taagggtgc tggaaagaag
163561 agtcctccgg ggactggctc ccacaaaaggc tgcccaatct caagtggcga gctctggcg
163621 cttgtctaga tggcaatgct gcgtggactc agtgggttat gtatgcgtgt gtacatgcac
163681 atgcttagat aataattaaa aataagaggt catgagtttgg gaggttgg gtttgcctat
163741 gggagcaact ggaagtgggg ggcagagaaa gggctggag tgacacaggt gtatgtcttg
163801 tgtatggct aaagattaaa ttagagttttag ggaaaaaaaa accccacagg aattggaaag
163861 agtggattccc aagccactga cacagcacag cactgcttc ctgtggaggt gctcctgtgc
163921 catcctccct aatctttatg ttgcacatct taagagtggt ctgtttgtgt atcctctcat
163981 gcatgtatct cctcagcggt ctcatccacg aatgcttaca ggtgacggtt gcatcagcag
164041 ttggagaaca agatacactg gaaagaaaaac attgtaccctt gatttgcacc gggaaagagga
164101 gaaagggAAC acgctaagca tataaacatg ttaacggtca agtagagtcc aaatcagatc
164161 ttgccactct tcaaactgaa ggtctgtat acttaaaagg gggaaaaaac ccattgaaat
164221 gcagaaggca gagaccatca ctcaaaagata ctcacgcgtt ggaggtcagt ttatattgg
164281 aacagtgtact tgggattggc caaccatcac tcacgttgcattt aaagtaatat ttcaatgttca
164341 actgttttac atgcatttag catgttagacg tattcaattt atagttgtaa acggcttaca
164401 agtgtaaagaa gccgatcaccc aagttcgaa ttgttagtgg tttaagtcta agtcccaatt
164461 cataccggca ctacaggtca gcaagtgtat gtttttaac tttaagaggg cgctcaataa
164521 actcgatag aaaatctggg agcaccaggc cttgttgcgtt agctactttt aaggcgatga
164581 tcctcatcgc caggaggaag ttgggttata cccatcatag ttcccttaac acaagcaatg
164641 cagaatggcc ttccacaatgt ttcctctaa aatgactgtt taaattgtgt ttttttttttt
164701 agaggacatc cacgagccgc atgtttccat ttttttttttttttttttttttttttttttttttt
164761 aagggtttcc ttacttgggt gctgggacac aactctggcc ctcacgttgcattt aacagcaagc
164821 ccagcaaccc ttcttagttcc aggatttaggt ctttttttttttttttttttttttttttttttt
164881 agaaaattgtc tagaagtcaag aggctatgtt cgggtggatg atgtacacccc agtgcggcc
164941 caagcaagcc aaatatgaaa gcaatt
165001 ctccccaccag gctgttagat attt
165061 tgcttctaaa tgaagaagtc tttaaaaagtt ttaacttctt aaggggccaaa tatcaatgg
165121 tatattccat ataaataaaaa attcatcaga tttgtcttca ctttttttttttttttttttttt
165181 caaatccatc aaccaaccaa ctaaccaacc aatcaacccaa ccaaccaacc aaccaaccaa

FIGURE 6PPP

165241 ccaaccaacc aaccaggtag tctctgtctt gttccagtc cattttcctg gtgcacaaaa
165301 ggactgatt tacttgttag aagggttatcg ggcaattctc tgggtctctc ttacaagggt
165361 actaagcatt ctcaggaggg ttcaatctt atggcccaat cactccctt cgccccaaaa
165421 caatgtcttg atgaccttc aacacagtca tggcagatta tgggtctgttag gctttactgg
165481 tgccaagggc tcctgagaat acaacaccaa aatgtatctca tcccaagaag gatgcttcag
165541 acagacagtc ccacatgctt tcctctactc ctggctcatc ccctgtattc catacatcta
165601 tatccccctgt ccctcttagc tctcctctga gtggcaaaga ggcatctccg acttaacgag
165661 atgcaaggca gagttcttagc tccatctgcc atccccacca cacacctccc aaacaaaccc
165721 actcccttcc tcctgcccgc tcgggaacgg gcaacttcac ttctcggtt atctaagcca
165781 aatgcctgaa tcattccttta tccctctttt ccccacctgc aagatttcaac aagtccctaa
165841 atattcctga atctatctac tcttagttac tgtaactgtat gggtgcaagt ctcaacaagg
165901 aactcttctg tcccggcact acctgcattcc agccatgtct agatacattt ttcaatttg
165961 tctgcgtaga caaggggttag atgttaccacc agtatctagc aggaagatgc atagacaagg
166021 ggttagatgtt ccaccagtat ctgcaggaa gaggccaggg atattgtat acattctata
166081 atgcacacacg cagctccatcat cattaaagac tgcctcactc aaaatgtcaa tggcatttag
166141 aaactgagct ctattccaag ccagtagaat ctctccaaaa aaaccccttc aaaacaactt
166201 cctaactgtt ttccctgatt ttctacttta aattgccttg ctgcgtgaaa acaactaaag
166261 ttatcagcag aaatacagag tgcgttccatcat cttttttttt catggcctgt
166321 aggccttgc ctactccact ggccccccgc cagctccatc attctcatcc caccaaattc
166381 ctacgtcaga gcccataagcc ctcaaggtagc tctgcttagag acagactcta cggtagtaac
166441 tgaaggtaa gtgagccctgt aaggaggaac tgagccttgt aatggttggt gccttcatga
166501 aagacacacg gaagcttgc ctctcatcca ctctgctgt aagcttgctc tcccatccac
166561 tctgctgtga gaagatggcc atccacacag aaaaaggacc tcactggat ttgacccctgc
166621 tggaaactctg atcttggcct catagttcta ggacttttagg aaaaaggacc tcagcagtt
166681 aagccaccca ggctgtggta ctgttttgtt aagagtttgc ctaatacattt caacccctgt
166741 accttgccaa gttccagttc actggccatc agtccactt caccacagcc cttggcctcc
166801 ctcttctgaa ctgcatttag ctgaccccta ataaccctta gtcaaaatgc caccctcccc
166861 aggaggact gtgttactcc atccttcctg gatttttagg acagcccat gttggcatt
166921 aaccaagctg cctaccctct ttgttactg gtctccttgc cccagtgcag aacccctca
166981 gtcttgcctt ttgttgcattt aggataagat aatctgtgt gcttataatct cttaaactca
167041 aaacaaggaa aggttaggggg tctgtgaaca tgctttggcc catgaccagg ttccctctgc
167101 cgcttctcca aagagagcta ccatacttgc gcctaccta gttcccaag agcccatcca
167161 gggcaggagg gaatcattac atgttacatc tagaatgagt acttccttattt attcttcac
167221 tttagggaggc agcaaagggtt caaggttacg gtaaaagtaca ggtatggggg catcaccctg
167281 atatgtatgaa gcaccaaggaa actcccaat gttaactatc tagccacaga gcaggttgg
167341 gtatgttcca gtttagttta cgaggtaac tctgaacaga gaaacaaaa gcaagcagta
167401 aaggactatg aggcacgtgg gtttgcgtg tgcgttccatcatc gatgcttcac
167461 taaggagggtt gcatggggac taaggttacg tggatgttgc catggaaat tcaggaaaa
167521 agcaaggaaat gtttgcgttccatcatc gtttgcgttccatcatc gatgcttcac
167581 gtttgcgttccatcatc gtttgcgttccatcatc gatgcttcac

FIGURE 6QQQ

167641 aagtccagat acagatggcc gaatgagggg ccacgagcct gtgcaggaca tacagataat
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167761 gttttttttt gttttttttt agttttttttt aaatttttttt aatttttttt
167821 caaggcgaag gcttataagt cagggcacc ccagaaagga ggcacacccc agaaaggagg
167881 cagcttctaa gaaagaggaa aagagagaaa gtcggcaagc ctgagaaatc aggcttgggt
167941 ggcctgaaaaa ggcagaccat gatgtgtgt gtgggaaaggc agggcaggac tccttcct
168001 tctggaggaa tacatgtgt ggcactggga catccagctt caacccagg agcccaggcc
168061 cagcatgacc ttcttaacgca ctgttagt gacaggtag agccttaag aatggtgct
168121 cgtatggggc cctgtcccat ccttcaagat gtctaaaggg ggtggactg gctaagtccc
168181 tccttcctt ctcacccccc tccacatcca acctcctcca aaaacatcaa atatttctt
168241 ccataaataa ttgcaacagg atgcatttc tttcctcaaa gaaacaatgg cctgattgt
168301 ccctgtccga cacgggccc gccccagcac acacaaaggg tggcttcag aagccctgct
168361 gtagagaatg ggggtacacc tccttcctt tttctgtac caagtccact gcccctccacc
168421 aggaaaggac atcaggaagg ggctgctacc acaggaataa ttcccatcag aggacagcta
168481 tcattcacct gccttttagat tgcctttgg ccacctctag aaagttcttc gttctggta
168541 acagaagagc acctattggc tctaaaatcc aacacacaca cacatacagt tttaggctgg
168601 agatatctat aattttttt tctaattttc aaacttattt gaaattgtca ttaatataact
168661 tttaaaatat ttgaaatctt agcattcagg aggcagaggc tggacaattt ccccacattt
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169081 tgtccgtct cctgtttttt cacccttactc cacttcctaa gtacaggaag cgcttcatct
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169201 ataagccctt tattacttaa gtttttttgc taacactaat caagtgtgtt tcttggttaa
169261 aaaggacagg ctggactaaa ggattcaatt tcagcacca aggggcttggag gagatgagag
169321 agcctgtgc tggggctgtg ggctgggata agttgaggcc cgagtttagt tctcagcacc
169381 catgtttgtt tcccaacattt ccatgttcac cccaggcctc caagggcctc cacacacata
169441 gatataccca ccctgagata ttgcgtatgc tataaataaa cataaaataaa atatttaag
169501 aacccatcac ttgcagcca tggcttgaca aacaggctct ttgggtgtt cctcacatag
169561 gtgcaagagg aactcaggca ggggtgttga gtttttttttgc ttttgcattt ttttatttatt
169621 tattgggtgtt actctctgtt tattggggta gttgtgttgg gttgcattt gtaacatttgc
169681 cattaaagat gttaaaaggc tgccttccca ttttcaaga ctcagactga tcactctccc
169741 agccagaggc ttctgtcagc tactaaagggttcccttttttgc ttcttatttgc tggccttct
169801 cccatccact tctgttttttgc tcttttaattt aatgaaat gtagggccctc catggctgag
169861 atgctaataa ggcccctgaa agtcatctgt gggcatacc actttgtttt aaagagccat
169921 gtaaacagac cacagacggc tacagagagc aacgctgcac agggcaagga aaagggaaatc
169981 tggctgcacc gtacagtgtt acgttgcattt gatgttgcattt ttagccagg aggaggaaatc

FIGURE 6RRR

170041 gaaacacaaa cgcaatttca agtttaagca tggcgtctcc acaggatctt ccatagcaag
170101 cactctgcac tcgggggctc cctgtcagga aactcctgga caacgggtgg tttgcgtct
170161 gatccacttc agttacctca ccaaaccattc aagaggtaact ttctgtatgtg tggggctt
170221 agcgcttaggt tgatacaaaa cgttacctgg atctgtactg gaagtcaact atattgtct
170281 ccaaatccat tgtaactggc tctgcatgga gccatccgtg tgagagaggc tgatgtgt
170341 gccaccactc tgcagacact gaaaacagcg caggaccaat ctgtatccat cgttcctacc
170401 tgggttcag tggtaacat tctcaaagca tttcagatg aagaatttag tcagacagac
170461 agacagatgg agacacggat cacttggaaa ctgtgtatg gggccacatg gggaaacact
170521 gggtagtca ggaagacacg gcggttcta cagggaaagt ctgggtgtcc ctttgagtt
170581 cttgtgtgag aaagttgtcc ccaaggttac agtgcgtgggaa gatacaagtt ttttgggtt
170641 ttttgggttgc ttgtttgcgt gtttgggttgc ttgtttcaag acagggttgc tctgtgtac
170701 tctggctgtc ctggactca cttttagac caggctggcc tcgaactcag aaatccgcct
170761 gtctctgcct cctgagtgct gggattaaag gctgtgcgcca ccacgcccag gtgggagata
170821 caagtttaa gagggtggcc tgggtatagg ttcttaggccc actgggttacc ctgtcctcag
170881 agattaaggt aattctcaca agagggtctag agaaacgggc caagtgtgac ctctctccac
170941 atctgttct tatgtttact tgctctcagg ttctgtcac tgactcgagc aagagcaacc
171001 cttaccatag ctgcactatg atgtttggac ttcaaaacca aactctggac attaactaag
171061 atttctcttt taaaatcag taatacactg ttgactaaca atgaatgaat gaagcagagt
171121 aagtaggctg aggatggact gttcaagtt atcttggcag gcagtgaagt tgggtagtgt
171181 acggcttccc tggcatgtgg ccctaggag gagatatgtg cttctttact accttaggaat
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171301 ctacgagaat ctcttcagggc tcagtcgagg gcgaaacacca attagctcaa aaatttccac
171361 gaaaacaggc aagattaata tggaaatagtg agggagataa tgagaacaca taacggaaac
171421 aaccccatgt attagccctc tgctcagctc gggggatgg gtacctcaac cactcttaat
171481 tcccagttca ccaatgcaac tggggagcgg gtcttccatc aacatgaggt aaagctagca
171541 gagtctgttag actaagataa cagaatggca 171601 tggcacctca gccttcaaaa gttactgttc
171661 gtgataaagc ctatggatca aacactactc actgaaatgt tattagaaaa attgccaatt
171721 ctgttgcag tccccgaaac tttaactgtt ccattgcaag gaacattcat aaacagaaag
171781 gccataatac ggatgagaaa acagggtctag tagagcagag aaaacctgga agagggaaac
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171961 agtgaggtct ctcataagct gcagagacac agaaaagtct caagggacag gtgggtgc
172021 gtgtccaaga cctggcgcag cagttataac gtccaggttgc tggcttgc tctgcttcat
172081 tagtgtgttgc ccagcgcacta ggaatgtgac ggctaccacc ttgctgtttg gactcatttc
172141 atgggttaac tgcagcaggc acaggaaatg agctaagaca gaccctgggt gagggaggca
172201 gctcatcttca aatgcccggg gggcacaacc tatctgtatct gatataactct ccagttaca
172261 aactactgac aatcacatca agtgaaggc agtgcagcc acagctctcc cttgttcaca
172321 gtttgcatttca cttgggttca gttacctgaa ggcaactatg acataacaat attaaatgg
172381 aaattacaga aataaagtag ttccttggcc tcaagttgcc tgccactgga agttacagga

FIGURE 6SS

172441 agccatcttgc ttgtcctgct ctgttaagggt cctcccttgc tgcaacggat ccaggctgt
172501 tacccaaacca tcggctagcg acgtcataga gatctgagta gaacaagtgc tggtgttcaa
172561 gtacccctga cttaactttaa cagtgacccc caaacgggaa aaagagttagt gttggcaact
172621 tattacagcc aaaaacatgt tattacaatg tattttatg actgctgtat tgataactgtt
172681 aattgctggt tataattaag cttcgttata gatacgtatt tataggaatt agcagcatac
172741 atcagggtttg gtggattttt gatctactac agatcttgc aagtatctcc
172801 ctcacagggaa gagagactac tgtaccattt ctcttcaatg gtgactctta atactggcat
172861 atagacagct ctgctgaccc tttagaagt ccagagaaca ggcactctgg acacagcgct
172921 gctctggcc tcgaggggatc tgcaagaagg aatgggggaa agatatgtc tctggggacc
172981 agcttctcc ttaacatgc aggaactaat gagacgtttt ttgaaggagt ccaggtgagt
173041 gacacccatt aaagggtgtt agttaatgtt catccccata aacgcccatt acggcag
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174061 gctctcgaga acatgacagg gtgggggtgtc cagataagaa ggctctagct aggtagctg
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174301 actctgtccg tgggggtgtc tgggtgttgc tgggtgaag gtcagaggatc aactcagggt
174361 tccaatccag gctcccttttgc aacttcttagc tttagtttgc aacactggca gctgaattgg
174421 gtttgggttgc ttgttttttgc agatgtgttgc ttgatctgca gcccaggctg ggcttgaatt
174481 c

FIGURE 6TTT

1 aaagggaatt tcatccaaa taaaaggaat gaagtctggc tccggaggag ggtccccgac
exon 1

61 ctgcgtgtgg gggctcgt tttctccgc cgcgctctcg ctctggccga cgagtggaga

121 a|atctgcggg cgggcattg acatccgaa cgactaccag cagctgaagc gcctggagaa
exon 2 Primer 1

181 ctgcacggtg atcgagggtc acctccacat cctgctcatc tccaaggctg aggactaccg

241 cagctaccgc ttcccaagc tcacggcatc acccgagta ctgctgctgt tccgtgtggc

301 tggccttgag agccttggcg accttccc caatctcacg gtcacccgctg gctggaagct

361 cttctacaac tacgcctgg tcatctcga gatgaccaac ctcaaggaca tcggctcta

421 caacctgagg aatattaccc gggggccat caggatcgag aagaatgc Yg acctctgcta
SNP469

481 cctctctacg gtggactggc ccctgatcct ggatgccgtg tccaataact acatcggtgg

541 caacaagccc cctaaggaat gggggactt gtgcggcagg acgctggagg agaagccgct

601 gtgtgagaag acgaccatca acaacgagta caactatcgc tgctggacca cgaaccgctg
Primer 2

661 ccagaaa|atg tgcccgagcg tgtgcgggaa gcgggctgc acagagaacc acgagtgcgt
exon 3 Primer 3

721 ccaccccgag tgcctggca gctgcagcgc acccgacaaac gacacRgcct gtgtggcctg
SNP766

781 ccgccactac tactacgccc gagtctgcgt gcccagctgc ccacccaaca cctaccgctt

841 cgagggctgg cgctgcgtgg accgcgactt tgcccaac atcccagtg cggagagcag

901 tgactccgag ggcttgtga tccatgatgg Sgagtgcatg caggagtgcc cttcaggctt
SNP931 Primer 4

961 catccgcaat ggcagccaga gc|atgtactg tatccctitgc gaaggccctt gccccaaagt
exon 4

1021 ctgtgagggaa gagaagaaga caaagaccat tgattctgtc acttctgctc agatgctca

1081 aggatgcacc atcttcaagg gcaaccctgtc cattaacatc cgacgcggc|a acaacattgc
exon 5

1141 ctcggagcta gagaacttca tggggctcat cgaggtggtg acgggctacg tgaagatccg

1201 ccactcccat gccttggct ccttgcctt cctgaaaaat ctgcggcaga tcctagggga

1261 ggagcagctg gagggg|aatt actccttcta cgtccttgac aaccagaact tgccagcagct
exon 6

1321 gtgggactgg gaccatcgca acctgaccat caaagctggg aaaatgtact ttgcattcaa

1381 tcccaaattg tgtgtctccg agatttaccg catggagggaa gtgacagggc ctaaaggcgc

1441 ccagagcaaa gggacataa acaccagaa caatggagag aggcctcc|t gtgaaagtga
exon 7 Primer 5

1501 cgtcctKcac ttacacttca ccaccacgtg gaagaaccgc atcatcatca cctggcaccg
SNP1507

1561 ataccggccc cctgactaca gggacctcat cagcttact gtctactaca aggaagcg|cc
Primer 6 exon 8

1621 cttaaaaac gtcacggagt atgatggca ggatgcctgt ggctccaaca gctggacat
Primer 9

1681 ggtggacgtg gaccctccctc ccaataagga cgtcgaggcct ggcattctac tgcattggct

1741 gaagccctgg acacagtacg cYgtttacgt cRaggccgtg accctcacca tggggagaa
Primer 7 SNP1762 SNP1772

FIGURE 7A

1801 tgaccacatc cgtggggcca agagttagat cttgtacatt cgcaccaatg cttca gttcc
 Primer 8 exon 9

1861 ttccattccc ctggatgtcc tctcagcatc aaactcctct tctcagctga tagtgaagtg

1921 gaacccgccc tccctgccc atggcaacct gagctactac atcgtgcgg ggcagcggca

1981 gcctcaggac agctatctct accggcataa ttactgtctcc aaa|

Primer 10

ggtgagg gggacatggg acaccgtgg ctctgactcc cgagccctat gctacgcatt cagcatcagg ctgctgctgt
 Intron 9

gtgcagccctt ggccatggtc acaggtgcta accgYgggtg cYtcccgta cgggtggta acttggctct
 SNP9i112 SNP9i119

ccttgggctg ctctttcca agca

|gacaaaaa tccccatcag

exon 10

2041 gaagtatgct gatggcacca ttgatgtcga ggaggctaca gagaacccca agactgaagt

2101 gtgtggcggg gagaagggac catgctgtc ttgccccaaa acagaagctg agaagcaggc

2161 agagaaggag gaggctgagt accgcaaggt cttcgagaac ttcctgcaca atgccatctt

Primer 11

2221 tggccca|g cctgaacgga agcggaggga ggtcatgcag gtcgccaYa ccaccatgtc
 exon 11 Primer 12 SNP2269

2281 cagccggagc agaaacaccca cagtggtggcacctacaat gtcacggacc cagaggagct

Primer 13

2341 tgagacagag taccctttt ttgagagcag agtggataac aaggagagaa ctgtcatttc

2401 caacctccgg cctttactt tgtaccgaat tgacatccac agctgttaacc atgaggctga

2461 gaagctggc tgcatgtc ccaacttgtt ctgtcaaga accatgcctg ca|GGTAT

Intron 11

GGTGTGATCCAGTCACTCCATTCTAATTCACTCACAGCCTGATTGTAC
 AGATGGAGGCTGACACCCAGGGCAATGACCCCTACTCTCAGTCCTGCTTA
 TTAAAGAATGAGTGGTCTTTGTAGGCAGCTCACTAGTCCAGCAGCCCAG
 GAATGGAGTCATTCA TAGCAACCCCACTCTCTCCCCAGTCTCTCCATACA
 GAGTGTGAGAGCAGGGAACTCAATTCAAGGGTCTACACTTTCCCTCTCCT
 TGGTCATGTTGTGCATTGCCGTGGGCCCTTTTTGCCATTATGCAAA
 GGGAAATTGCCAGGTCTCCTGAGTTCTCAGAGATT
 TGTGAAATCCTCAGTTGGCTGCCCTGAATCAAAGTGAGTGTAGCTCCTGA
 AGGTCA GCTCCCAGAGCAGCTTCGCGTCTGCTTGGTCCTCACCTTC
 CTCTCTTTAGAAGCTACCTGTGGCCAGACAGCAAGCCATC(N)nAAAAAA
 AAAAAAAGAAACCTACTGT
 GTATGTGAGGTCAGGTCAAGGAGAAATGAACGCAGGTACCGTCTGCAGTCC
 TGTATGCATGGTTGAAGAGGGTATTCTTAGGTTAA
 TCCAGCATTGTCCTTTGGGGACTTGAGTCTAACTCATTGCTTGT
 TTCAATTGTTGCACA|gaaggagc

exon 12

2521 agatgacatt cctggggccag tgacctggga gccacggcct gagaactcca tcttttaaa

2581 gtggccagaa cctgagaatc ctaatggatt gattcta atg tatgaaataa aatacggatc

2641 acaagtgcag| gatcagcggg aatgtgtgc cagacaggag tacaggaatg atggaggggc
 exon 13

2701 caagctgaac aggctcaacc cgggaaacta cacggccgg attcaggcca cctctctc

2761 cgggaatggg tcatggacgg aacctgtgtt cttctacgtc caggccaaa|a cgacatatga
 exon 14
 2821 aaacttcatc catctgatca tcgcctacc agtggccgtt ctgtgtatag taggagggtt
 2881 ggttataatg ttgtacgtct tccacagaaa gaga|aataac agcaggctgg ggaatggagt
 exon 15
 2941 gctgtatgct tccgtgaacc cggagactt cagcgcagct gat|gtgtacg tgcccgacga
 exon 16
 3001 gtgggagggtc gcccgggaga agatcaccat gagccgggag ctgggacagg gtccttcgg
 Primer 14
 3061 gatggttat gaaggcgtcg ccaaSggYgt ggtcaaagat gaggctgaga ccagggtggc
 SNP3085 SNP3088
 3121 cattaagaca gtgaatgagg ccgcagcat gcgYgagagg attgagttc tcaacgaggc
 SNP3154 Primer 15
 3181 ctccgtgatg aaggagttca actgtcacca cgtg|GTGAGGGAAAGGGCCCCAAG
 Primer 16 Intron 16
 GGTTGGGRCCACCCTTATGGGTTTGCAGTCATCCTGTCTGTAGGATCC
 CTSTCACTGCTCAAGAAGGTTGGGGGGATGTGCA
 SNP16i27 SNP16i73
 GGTCCAGGGAGTCTGGTGCCACATCATCCAGGGTGCTCAGGGTGGCCT
 GGTGGGGTTGGGGGGCTGCAGGGGGCTCACCCCTGTCTCCTCTTTCCC
 CCTCACAG|gtgcgg ctgctgggtg tgggtccca
 exon 17
 3241 gggccagcca acgctggta tcatggaaact gatgaccgg gggaccta aaagttatct
 Primer 17
 3301 ccggctctg agaccagaaa tggag|aataa tccagtccta gcacctcaa gcctaagcaa
 exon 18
 3361 aatgatccag atggctggag agatYgcaga tggcatggca taccta acg ccaataagt
 Primer 18 SNP3385 Primer 20 Primer 19
 3421 tgtccacaga gacctcgctg cccggaactg Yatggtgcc gaagacttca cagtcaaaat
 SNP3451 Primer 21
 3481 cgg|gattt gggatgacga gagacatcta tgagacagac tattaccgca agggagggaa
 exon 19
 3541 agggctgctg cctgtgcgt ggatgtcccc tgagtccctc aaggacggag tcttcaccac
 3601 gcactctgtat gtctgg|tcct tcgggggtcgt cctctggag attgccacgc tggccgagca
 exon 20
 3661 gcccataccag ggctgtcca acgagcaagt cttcgctc gtcatggagg gccccttct
 3721 ggacaagccg gacaactgtc ccgacatgtc gtttgaVctg atgcgtatgt gctggcagta
 SNP3757 exon 21
 3781 caaccccaag atgaggcctt cttcctgga gatcatcagc agcatcaagg aYgagatgga
 Primer 22 SNP3832
 3841 gcctggcttc cgggagggtct ccttctacta cagtgaggag aacaagccgc ctgagccgg
 3901 ggagctggac ctggagccgg agaacatgga gagcgtcccc ctggaccctt cggccctc
 3961 gtcctccctg ccgctcccc acagacactc aggacacaag gctgagaacg gcccaggccc
 4021 tggcgtgctg gtgtcgag ccagctcga cgagagacag cttacgcgc acatgaacgg
 4081 gggccgcaag aacgagcggg ccctgcctt gccccgtcc tcgacctgct gatcctggat
 Primer 23
 4141 cccgatcccc tgcaaacagt accgtgcgcga cgcggccgg cggggggaga gtttaacaa
 4201 tctattcaca agcctcctgt acctcgtgg atcttc

FIGURE 7C